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TITLE**DETERMINING CANCER-LINKED GENES AND THERAPEUTIC TARGETS USING MOLECULAR CYTOGENETIC METHODS****CORRESPONDENCE ADDRESS**

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33,389☐ Additional inventors are being named on separately numbered sheets attached hereto**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, DC 20231.

DETERMINING CANCER-LINKED GENES AND THERAPEUTIC TARGETS USING MOLECULAR CYTOGENETIC METHODS

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FIELD OF THE INVENTION

The present invention relates to Identification of amplifications / gains of genomic segments of DNA within human chromosomes in diseased states, such as cancer, that are demarcated and limited within specific chromosomal bands and defined herein as "amplicons" and whose disruption and/or change in expression is useful to distinguish cancerous from non-cancerous tissue and serve as potential therapeutic targets, pharmacodynamic /pharmacogenetic/surrogate and prognostic and diagnostic markers.

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BACKGROUND OF THE INVENTION

Malignant tumors are a leading cause of death in the United States and one in four Americans is likely to die of cancer. This disease is often characterized by an increase in the number of abnormal, neoplastic cells that are ultimately derived from a normal tissue after which the cells proliferate to form a tumor, which can then metastasize (spreading into adjacent tissues or traveling elsewhere in the body via the bloodstream or lymphatic system).

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The genomes of various well-studied tumors carry several different independently altered genes, including activated oncogenes and inactivated tumor suppressor genes. Chromosomal abnormalities have been identified in

most cancer cells. Conventional chromosome banding techniques allow for the detection of specific chromosomal defects in tumor cells but interpretation of the banding pattern is sometimes difficult, particularly when complex chromosomal rearrangements or subtle abnormalities are present. In recent years, new techniques, such as CGH and SKY, based on fluorescent *in situ* hybridization (FISH) (Pinkel et al., Proc Nat Acad Sci USA 85:9138-42 (1988)) have been developed to overcome the limitations of conventional chromosome banding. CGH measures intensities of fluorescently labeled tumor DNA and normal DNA following hybridization to normal chromosomes (Kallioniemi et al., Science 258:818-21 (1992)). Gain or loss of copy number of a particular chromosome or chromosome region in the tumor DNA is determined by the relative intensity of a fluorescence ratio. SKY utilizes a cocktail of chromosome probes, fluorescently labeled to specify each chromosome, which is hybridized to tumor chromosomes in an effort to identify numerical and structural abnormalities in the tumor cell (Schröck et al., Science 273:494-7 (1996)). CGH and SKY have been used to identify chromosomal regions that harbor genes significant to the process of tumor initiation or progression.

The identification of amplifications of genomic DNA within well defined and demarcated limits on human chromosomes is done at a resolution of human chromosome banding limited to 400-550 bands by the technique of Comparative Genomic Hybridization (CGH). The present invention applies custom protocols to obtain human template chromosomes that are resolved to 850 to 1000 band resolution of human chromosomes (ISCN, 1985), to perform CGH on a large number of cell lines/ tissue samples/tumor cells. This allows the identification of regions of genomic DNA amplifications ranging from 2-5 Mbp at the highest limits of resolution of human chromosomes, detected by fluorescent intensity evaluations performed at the microscope. Amplicons, or regions of interest,, from 10-20 Mb and more are also defined by these methods. These amplicons contain a gene, or genes, that are amplified (meaning copy number gains), and/or differentially expressed in the tissue/ cells of origin. Genes identified as being

amplified and/or over-expressed provide targets for intervention with a small molecular therapeutic, antibodies, anti-sense or other therapeutic modalities. A gene or genes within these regions could also be used for diagnostic or prognostic molecular pathology characterization and useful as pharmacodynamic biomarkers for drug response profiling and patient sub-set selection and stratification.

BRIEF SUMMARY OF THE INVENTION

In one aspect the present invention relates to a set of genes that have been localized within human chromosomal regions of interest (ROI) that have been identified by molecular cytogenetic techniques. In particular, the present invention relates to chromosomal regions of interest, or amplicons, that are summarized in Table 1 and containing genes with cDNA sequences shown in Figure 1.

In another aspect, the present invention relates to a method for diagnosing the presence of a cancerous condition, or diagnosing a predisposition to developing a cancerous condition, in an animal, especially a human being, by determining the amplification and/or over-expression, of one or more genes as identified in Figure 1 in a cell, or tissue sample, obtained from an animal. The animal may be afflicted with, or at risk of developing, such a cancerous condition, or otherwise predisposed to develop such a condition.

In a further aspect, the present invention relates to a method for the treatment of a cancerous condition, especially one involving breast, colon, lung, cervix, kidney, pancreas and prostate tissues, utilizing selected chemical agents having anti-tumor activity as identified using one of the assays disclosed herein.

Thus, in one aspect the present invention relates to a method for identifying an antineoplastic agent, comprising:

(a) contacting a test compound with a cell that expresses at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said gene; and

(b) determining a change in expression of said gene as a result of said contacting

wherein a change in expression indicates gene modulation thereby identifying said test compound as a gene modulating agent. In a preferred embodiment thereof, the change in expression is a decrease in expression.

In a further aspect, the present invention relates to a method for identifying a compound as an anti-neoplastic agent, comprising:

(a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

(b) determining a change in a biological activity of said polypeptide due to said contacting,

wherein a change in activity indicates anti-neoplastic activity and thereby identifies such test compound as an agent having antineoplastic activity.

Preferably, the change in biological activity is a decrease in biological activity. Also preferred is where the biological activity is an enzyme activity, most preferably involving an enzyme selected from kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, reductase, carboxylase, transferase, deacetylase and polymerase. Also preferred is a biological activity that is a membrane transport activity, an integrin, a Cytochrome P450 enzyme, a nuclear hormone receptor, or a receptor activity, such as a G-protein-coupled receptor. In other preferred embodiments, the polypeptide is contained in a cell.

The present invention also relates to a method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using any of the methods of the invention and in an amount effective to cause a reduction in cancerous activity of said cell. In a preferred embodiment, said cancerous cell is contacted *in vivo*, as where the agent is administered to a mammal, especially a human being, afflicted with cancer and in an amount sufficient to ameliorate the cancer.

The present invention further relates to a method for treating cancer comprising contacting a cancerous cell with an agent having affinity for an expression product of a gene corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1 and in an amount effective to cause a reduction in cancerous activity of said cell. Preferably, the expression product is a polypeptide and the agent is an antibody.

The present invention also relates to a method for monitoring the progress of cancer therapy in a patient comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polypeptide having a sequence selected from Genes 1 – 3049 of Figure 1, preferably wherein the gene comprises a sequence of Gene 1 – 3049 of Figure 1, such as where the cancer therapy is chemotherapy.

In a further embodiment, the present invention relates to a method for determining the likelihood of success of cancer therapy in a patient, comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polynucleotide having a sequence of one or Genes 1 – 3049 of Figure 1 wherein a decrease in said expression prior to completion of said cancer therapy is indicative of a likelihood of success of said cancer therapy, preferably wherein the gene comprises a sequence of Gene 1-3049 of Figure 1 and wherein the cancer therapy is chemotherapy.

The present invention still further relates to a method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

5 (a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

(b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

10 wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment. Preferred embodiments include where the change in expression is a decrease in expression and said decrease indicates success of said treatment.

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BRIEF DESCRIPTION OF THE DRAWING

Figure 1 shows the nucleotide sequences of cDNAs derived from genes
20 present in the amplicons of the invention.

DEFINITIONS

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As used herein, the following terms have the indicated definition unless expressly stated otherwise.

The term "amplicon" refers to regions of interest, i.e., genomic segments
30 of DNA within human chromosomes in diseased states like cancer that are demarcated and limited within specific chromosomal bands. Since these

amplicons contain sequences of a gene/ or genes that are amplified (copy number gains), and/ or differentially expressed in the tissue/ cells of origin, a listing of these genes within the amplicons detected are listed in Figure 1. Genes identified as being amplified and/or over-expressed within the amplicons provide
5 a useful target for intervention with small/large molecule/protein/antibody therapeutics, anti-sense or other therapeutic modalities. A gene or genes within these regions is also useful for diagnostic or prognostic molecular pathology characterization/companion diagnostics, and useful as pharmacodynamic biomarkers for drug response profiling and patient sub-set selection and
10 stratification.

The term "percent identity" or "percent identical," when referring to a sequence, means that a sequence is compared to a claimed or described sequence after alignment of the sequence to be compared (the "Compared
15 Sequence") with the described or claimed sequence (the "Reference Sequence"). The Percent Identity is then determined according to the following formula:

$$\text{Percent Identity} = 100 [1-(C/R)]$$

20 wherein C is the number of differences between the Reference Sequence and the Compared Sequence over the length of alignment between the Reference Sequence and the Compared Sequence wherein (i) each base or amino acid in the Reference Sequence that does not have a corresponding aligned base or amino acid in the Compared Sequence and (ii) each gap in the Reference
25 Sequence and (iii) each aligned base or amino acid in the Reference Sequence that is different from an aligned base or amino acid in the Compared Sequence, constitutes a difference; and R is the number of bases or amino acids in the Reference Sequence over the length of the alignment with the Compared Sequence with any gap created in the Reference Sequence also being counted
30 as a base or amino acid.

If an alignment exists between the Compared Sequence and the Reference Sequence for which the percent identity as calculated above is about equal to or greater than a specified minimum Percent Identity then the Compared Sequence has the specified minimum percent identity to the Reference Sequence even though alignments may exist in which the hereinabove calculated Percent Identity is less than the specified Percent Identity.

As used herein, the terms "portion," "segment," and "fragment," when used in relation to polypeptides, refer to a continuous sequence of residues, such as amino acid residues, which sequence forms a subset of a larger sequence. For example, if a polypeptide were subjected to treatment with any of the common endopeptidases, such as trypsin or chymotrypsin, the oligopeptides resulting from such treatment would represent portions, segments or fragments of the starting polypeptide. When used in relation to a polynucleotide, such terms refer to the products produced by treatment of said polynucleotides with any of the common endonucleases, or any stretch of polynucleotides that could be synthetically synthesized.

As used herein, the term "DNA segment" or "DNA sequence" refers to a DNA polymer, in the form of a separate fragment or as a component of a larger DNA construct, which has been derived from DNA, and may include both single stranded and duplex sequences. Such segments are provided in the form of an open reading frame uninterrupted by internal non-translated sequences, or introns, which are typically present in eukaryotic genes.

The term "coding region" refers to that portion of a gene which either naturally or normally codes for the expression product of that gene in its natural genomic environment, i.e., the region coding *in vivo* for the native expression product of the gene.

The term "nucleotide sequence" refers to a heteropolymer of deoxyribonucleotides. Generally, DNA segments encoding the proteins provided by this invention are assembled from cDNA fragments and short oligonucleotide linkers, or from a series of oligonucleotides, to provide a synthetic gene which is
5 capable of being expressed in a recombinant transcriptional unit comprising regulatory elements derived from a microbial or viral operon.

The term "expression product" means that polypeptide or protein that is the natural translation product of the gene and any nucleic acid sequence coding
10 equivalents resulting from genetic code degeneracy and thus coding for the same amino acid(s).

The term "fragment," when referring to a coding sequence, means a portion of DNA comprising less than the complete coding region whose expression
15 product retains essentially the same biological function or activity as the expression product of the complete coding region.

20 DETAILED SUMMARY OF THE INVENTION

The present invention relates to a set of genes that are amplified and/or over-expressed genes in cancer cell lines and have been localized to various chromosomal regions of interest. These genes have been identified through a
25 combination of CGH, SKY, expression analysis and Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR). Such genes are both markers and potential therapeutic targets for cancer, in particular breast, colon, lung and prostate malignancies. In addition, the amplified nature of such genes provides a means of diagnosing a cancerous condition, or predisposition to a cancerous
30 conditions, by determining the amplification of one or more of such genes in a

patient afflicted with, or predisposed toward, or otherwise at risk of developing, cancer.

In one aspect the present invention relates to a set of genes that have been localized within human chromosomal regions of interest (ROI) that have been identified by molecular cytogenetic techniques. In particular, the present invention relates to chromosomal regions of interest, or amplicons, that are summarized in Table 1. Table 2 lists tissues where the amplicons are found, cell lines expressing them, the amplification ratios found in those tissues for cancer versus normal cells, amplicon size and the chromosomal locations of the amplicons. Table 3 lists the chromosomal locations and accession number identifications of these regions of interest and which serve to correlate amplicons with the cDNA sequences of Figure 1.

Table 1 - List of Amplicons

| | AMPLICON | CHR | BPSTART | BPEND | BPLENGTH |
|----|----------|-----|-----------|-----------|----------|
| 20 | A1 | 8 | 122000000 | 127500000 | 5500000 |
| | A2 | 13 | 96500000 | 100000000 | 3500000 |
| | A3 | 5 | 175000000 | 181500000 | 6500000 |
| | A4 | 13 | 26500000 | 34000000 | 7500000 |
| | A5 | 7 | 101000000 | 106000000 | 5000000 |
| 25 | A6 | 10 | 73500000 | 82500000 | 9000000 |
| | A7 | 7 | 71000000 | 77500000 | 6500000 |
| | A8 | 1 | 116500000 | 120000000 | 3500000 |
| | A9 | 6 | 36000000 | 41000000 | 5000000 |
| | A10 | 18 | 70500000 | 76500000 | 6000000 |
| 30 | A11 | 9 | 9000000 | 18500000 | 9500000 |

For Table 1, CHR means chromosome number, BPLENGTH represents the number of nucleotides in the amplicon. BPSTART refers to "base pair start point" and BPEND refers to "base pair end point" along the chromosome based on the July 2003 human reference sequence UCSC version hg16 (NCBI Build 34).

Table 2. Amplicon Locations

| cell line | Amp # | tissue | chrom | band start | band stop | Ratio | amplicon size MB |
|-----------|-------|----------|-------|------------|-----------|-------|------------------|
| HCC1954 | A1 | Breast | 8 | q24.13 | q24.13 | 14 | 5.3 |
| NCI_H446 | A1 | scLung | 8 | q24.13 | q24.21 | 8 | 8.3 |
| NCI_H827 | A1 | scLung | 8 | q24.13 | q24.21 | 6 | 8.3 |
| HCC202 | A1 | Breast | 8 | q24.13 | q24.21 | 6 | 8.3 |
| NCI_H82 | A1 | scLung | 8 | q24.13 | q24.13 | 7 | 5.3 |
| NCI_H23 | A1 | nscLung | 8 | q24.13 | q24.13 | 7 | 5.3 |
| MDA_MB436 | A2 | Breast | 13 | q32.2 | q32.3 | 6 | 5.3 |
| NCI_H1963 | A2 | scLung | 13 | q32.3 | q32.3 | 6 | 3.3 |
| EFM192A | A2 | Breast | 13 | q32.3 | q34 | 8 | 18.8 |
| MDA_MB157 | A2 | Breast | 13 | q32.3 | q34 | 5 | 18.8 |
| HCC1937 | A2 | Breast | 13 | q32.3 | q32.3 | 4 | 3.3 |
| SKBR3 | A2 | Breast | 13 | q32.3 | q32.3 | 4 | 18.8 |
| NCI_H1963 | A2 | nscLung | 13 | q32.3 | q32.3 | 6 | 3.3 |
| HCC1954 | A3 | Breast | 5 | q35.3 | q35.3 | 4 | 4.3 |
| MDA_MB436 | A3 | Breast | 5 | q35.1 | q35.3 | 7 | 14 |
| BT20 | A4 | Breast | 5 | q35.1 | q35.3 | 4 | 14 |
| KPL1 | A5 | Breast | 5 | q35.1 | q35.3 | 4 | 14 |
| HCC3153 | A6 | Breast | 5 | q35.3 | q35.3 | 3 | 4.3 |
| HT29 | A4 | Colon | 13 | q12.3 | q13.2 | 5 | 9 |
| SW403 | A4 | Colon | 13 | q21.1 | q21.2 | 15 | 6 |
| BT20 | A4 | Breast | 13 | q12.3 | q13.2 | 4 | 9 |
| CPDR9 | A4 | Prostate | 13 | q12.2 | q12.3 | 2 | 7.1 |
| SW480 | A5 | Colon | 7 | q22.2 | q22.2 | 9 | 1 |
| X71 | A5 | Colon | 7 | q22.1 | q22.2 | 5 | 7.2 |
| X72 | A5 | Colon | 7 | q22.3 | q22.3 | 6 | 3.3 |
| Lovo | A6 | Colon | 7 | q22.1 | q22.2 | 5 | 7.2 |
| X1819_1 | A7 | Colon | 7 | q22.1 | q22.2 | 5 | 7.2 |
| EFM19 | A6 | Breast | 10 | q22.1 | q22.3 | 6 | 15.3 |
| PC3 | A6 | Prostate | 10 | q22.2 | q22.3 | 7 | 8.3 |
| MDA_MB436 | A6 | Breast | 10 | q22.1 | q22.2 | 3 | 10.7 |
| SKBR3 | A6 | Breast | 10 | q22.2 | q22.3 | 4 | 8.3 |
| SW48 | A6 | Colon | 10 | q22.1 | q22.3 | 4 | 15.3 |
| X71 | A6 | Colon | 10 | q22.2 | q22.3 | 2 | 8.3 |
| SKBR3 | A7 | Breast | 7 | q11.23 | q11.23 | 5 | 4 |
| X72 | A7 | Colon | 7 | q11.23 | q11.23 | 7 | 4 |
| X71 | A7 | Colon | 7 | q11.23 | q11.23 | 5 | 4 |
| X1819_1 | A7 | Colon | 7 | q11.23 | q11.23 | 4 | 4 |
| NCI_H69 | A7 | scLung | 7 | q11.23 | q11.23 | 4 | 4 |
| BT20 | A8 | Breast | 1 | p12.2 | p13.2 | 10 | 9 |
| CAMA-1 | A8 | Breast | 1 | p12 | p12 | 6 | 6.7 |
| KPL-1 | A8 | Breast | 1 | p11.2 | p13.3 | 11 | 14.7 |

| | | | | | | | |
|-----------|-----|----------|----|-------|--------|----|------|
| Colo205 | A9 | Colon | 6 | p21.2 | p21.2 | 8 | 3.4 |
| MDA_MB231 | A9 | Breast | 6 | p21.1 | p21.2 | 7 | 9.8 |
| NCI_H522 | A9 | nscLung | 6 | p21.2 | p21.31 | 6 | 9.1 |
| PANC-1 | A10 | Pancreas | 18 | q23 | q23 | 7 | 5.2 |
| NCI_H1607 | A11 | scLung | 9 | p22.2 | p23 | 10 | 14.5 |
| NCI_H446 | A11 | scLung | 9 | p22.3 | p22.3 | 8 | 2.9 |
| HCC1954 | A11 | Breast | 9 | p22.2 | p23 | 10 | 14.5 |

In addition, Figure 1 represents the nucleotide sequences for cDNA sequences corresponding to genes located in these regions of interest. Such regions contain genes found to be amplified and over-expressed in cancerous tissues, especially of breast, colon, lung, cervix, kidney, pancreas and prostate.

Each amplicon may contain about 75 genes, at least one of which will be amplified in a cancerous condition. Genes that show amplification and/or over-expression can be indicative of the cancerous status of a given cell.

Briefly, the procedures used to identify the genes disclosed herein may be summarized as follows:

For CGH analysis, based on detailed molecular cytogenetic characterizations, the following data sets are generated, which may include regions reported in the public domain as well as unique regions not previously known.

1. A map of chromosomal regions involved in consistent, recurrent and high level genomic gains (i.e., amplifications) for a representative cancer cell line or tumor type (e.g. colon, prostate, breast and lung) that can be recognized as a pattern/signature for a given tumor type.
2. A map of chromosomal regions containing genomic losses (i.e., deletions) in each tumor type and individual cell line to be examined.

3. Levels of intensities of gains and losses categorized for entry into a database.
4. A comparison of the patterns of gains and losses between the clinical samples (e.g. colon xenografts) and cell lines (e.g., colon) of matched Stages and Grades.
5. A comparison of the patterns of gains and losses between primary prostate tumor cell lines (e.g., CPDR lines) and metastatic prostate tumor cell lines (e.g., DU 145, PC3 and LNCaP).

10 In accordance with the present invention, for SKY analysis, data sets were generated according to the following steps:

1. Identification and development of a database of novel chromosomal rearrangements in epithelial cancer cell lines.
2. Identification of novel translocations involving specific chromosomes or chromosomal regions
3. Reconciliation of SKY and CGH analysis on the same cell line as a verification of the combined findings.

20 Combining genomic DNA analysis of gains and losses in the tumor cell lines/clinical samples with cDNA expression analysis from matched tumor types displayed ordered on the assembled Human genome sequence :

1. A pattern of gene expression on a Affymetrix chip set (U95 and U133) was used to generate differential gene expression profiles between samples sets containing normal and malignant tissues from colon, prostate, lung, breast and various cell lines.
2. A Spotfire™ visualization tool was developed that allowed the generation of a list of all the genes that are present in the Human genome sequence within the defined regions of gains/losses for each cell type/tumor type to identify genes to include in the HITS platform and for identification of cancer associated genes

3. The following algorithm was employed:

- 5 i) Match chromosomal regions of amplification/gains defined by CGH with the location of genes/ESTs on an Affymetrix chip as mapped to a Human genome template.
- ii) Identify genes/ESTs over-expressed in tumor tissue compared to normal tissue in said chromosomal regions using.
- 10 iii) Compile data on cell lines of a particular tumor type and different tumor types showing clusters of genomic gains and losses at certain chromosomal regions.
- iv) Pick BACs that span the chromosomal regions consistently gained and containing over-expressed genes in an effort to positionally clone novel cancer genes (oncogenes and genes in relevant pathways)
- 15 v) Validate the identified genes by
 - A) Picking STS markers that identify the gene sequence and quantify the relative copy number in genomic DNA and RNA across a panel of tumor cell lines.
 - 20 B) Develop probes for FISH on chromosomes from tumor cell lines and primary tumor tissue micro-arrays.

4. The expression data from tumor cell lines that have undergone SKY/CGH analysis was used to pick candidate genes to validate as individual targets in functional genomic assays and in-vivo assays and for use in the transcriptional assay platform.

In accordance with the present invention, over-expression of cellular genes is conveniently monitored in model cellular systems using cell lines (such as is used in the example below), primary cells, or tissue samples maintained in growth media. For different purposes, these may be treated with compounds at one or more different concentrations to assay for modulating agents. Thus,

cellular RNAs are isolated from the cells or cultures as an indicator of selected gene expression. The cellular RNAs are then divided and subjected to analysis to determine the presence and/or quantity of specific RNA transcripts, which transcripts are then amplified for detection purposes using standard methodologies, such as reverse transcriptase polymerase chain reaction (RT-PCR). The levels of specific RNA transcripts, including their presence or absence, are determined. When used for identification of modulating agents, such as anti-neoplastic agents, a metric is derived for the type and degree of response of the treated sample compared to control samples.

In accordance with the foregoing, the amplicons identified as being amplified and/or over-expressed, which can include increased copy number thereof, in cancerous cells are localized in chromosomal regions of interest as identified in Tables 2 and 3.

The genes localized in these amplicons may be utilized to characterize, the cancerous, or non-cancerous, status of cells, or tissues. The methods of the invention may be used with a variety of cell lines or with primary samples from tumors maintained *in vitro* under suitable culture conditions for varying periods of time, or *in situ* in suitable animal models.

The amplicons disclosed herein are expressed at levels in cancer cells that are different from the expression levels in non-cancer cells. Expression in cancer versus non-cancer cells of the same tissue type is a key identifier.

In accordance with the foregoing, the present invention also relates to a method for identifying a gene modulating agent, such as an anti-neoplastic agent, comprising:

(a) contacting a test compound, a compound whose gene-modulating and/or anti-neoplastic activity is to be determined, with one or more cells

expressing one or more genes mapped to the chromosomal region of interest, or amplicon, for genes as identified in Table 3, and

(b) determining a change in expression of said one or more genes compared to when said contacting has not occurred,

5 wherein a change in expression of said gene is indicative of gene modulating activity, thereby identifying said test compound as a gene modulating agent.

10 In accordance with the foregoing, the present invention relates to a method for identifying an antineoplastic agent, comprising:

(a) contacting a test compound with a cell that expresses one or more amplicons of Table 2 having an amplification ratio of at least 2.0; and

(b) determining a change in said amplification ratio due to said contacting; wherein a change in said amplification ratio due to said contacting
15 indicates that said test compound has gene modulating activity
 thereby identifying said test compound as a gene modulating agent.

The present invention also contemplates a method for identifying an antineoplastic agent, comprising:

20 (a) contacting a test compound with a cell that expresses at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said gene; and

(b) determining a change in expression of said gene as a result of said
25 contacting

 wherein a change in expression indicates gene modulation thereby identifying said test compound as a gene modulating agent.

30 In preferred embodiments of these methods, the change in expression is a decrease in expression and/or the decrease in expression is a decrease in copy number of the gene and/or the gene comprises a nucleotide sequence of one of

Genes 1 – 3049 of Figure 1 and/or the cell was genetically engineered to express said gene.

5 Because the genes disclosed herein are over-expressed and relate to the cancerous condition of a cell, successful anti-neoplastic activity will commonly be exhibited by agents that reduce the expression of said genes. In one embodiment thereof, the change in expression is a decrease in copy number of the gene or genes under study. In accordance therewith, said change in gene copy number is conveniently determined by detecting a change in expression of messenger RNA
10 encoded by said gene sequence. In another preferred embodiment, expression is determined for more than one such gene, such as 2, 5, 10 or more of the genes.

Thus, the present invention also encompasses a method for detecting the cancerous status of a cell, comprising detecting elevated expression in said cell
15 of at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 – 3049 of Figure 1 whereby such elevated expression is indicative of cancerous status of the cell. In preferred embodiments thereof, the elevated expression is an elevated copy number of the gene.

20 Other methods useful in measuring a change in expression of the genes disclosed herein include measuring a change in the amount or rate of synthesis of a polypeptide encoded by said gene, preferably a decrease in synthesis of said polypeptide. Most preferably, the polypeptide comprises an amino acid sequence highly homologous to a sequence encoded by a gene mapping to an
25 amplicon disclosed herein and whose expression is elevated in cancer.

The methods of the invention can thus be utilized to identify anti-neoplastic agents useful in treatment of cancerous conditions. Such activity can be further modified by first identifying such an agent using an assay as already
30 described and further contacting such agent with a cancerous cell, followed by monitoring of the status of said cell, or cells. A change in status indicative of

successful anti-neoplastic activity may include a decrease in the rate of replication of the cancerous cell(s), a decrease in the total number of progeny cells that can be produced by said cancerous cell(s), or a decrease in the number of times said cancerous cell(s) can replicate, or the death of said
5 cancerous cell(s).

Anti-neoplastic agents may also be identified using recombinant cells suitably engineered to contain and express the cancer-related genes disclosed herein. In one such embodiment, a recombinant cell is formed using standard
10 technology and then utilized in the assays disclosed herein. Methods of forming such recombinant cells are well known in the literature. See, for example, Sambrook, et al., *Molecular Cloning: A Laboratory Manual*, Second Edition, Cold Spring Harbor, N.Y., (1989), Wu et al, *Methods in Gene Biotechnology* (CRC Press, New York, NY, 1997), and *Recombinant Gene Expression Protocols*, in
15 *Methods in Molecular Biology*, Vol. 62, (Tuan, ed., Humana Press, Totowa, NJ, 1997), the disclosures of which are hereby incorporated by reference.

The present invention also relates to a method for detecting the cancerous status of a cell, comprising detecting elevated copy number and/or expression in
20 said cell of at least one gene that maps to a chromosomal region of interest, or amplicon, as identified in Table 3. Such elevated expression may be readily monitored by comparison to that of otherwise normal cells having the same genes. Elevated expression of such genes is indicative of the cancerous state. Such elevated expression, including increased copy number, may be the
25 expression of more than one such gene.

The present invention also relates to a method for detecting a cancer-linked gene comprising the steps of contacting a test compound, identified as having gene modulating activity for a gene mapping to one of the amplicons
30 disclosed herein, with a cell expressing a test gene and detecting modulation, such as decreased activity, of such test gene relative to when said compound is

not present thereby identifying said test gene as a cancer-related gene. In preferred embodiments, the gene determined by said method is an oncogene, or cancer facilitating gene.

5 In another embodiment, there is provided a method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using any of the assay methods disclosed according to the invention and in an amount effective to reduce the cancerous activity of said cell. In a preferred embodiment, the cancerous cell is contacted *in vivo*. In other
10 preferred embodiments, said reduction in cancerous activity is a decrease in the rate of proliferation of said cancerous cell, or said reduction in cancerous activity is the death of said cancerous cell.

 The present invention further relates to a method for treating cancer
15 comprising contacting a cancerous cell with an agent having activity against an expression product encoded by a gene mapping to an amplicon as disclosed herein, preferably where the expression product is a polypeptide. In a preferred embodiment, said cancerous cell is contacted *in vivo*. In another preferred embodiment, the agent is an antibody.

20 Nucleotide sequences mapping to the amplicons disclosed herein may be genomic in nature and thus represent the sequence of an actual gene, such as a human gene, or may be a cDNA sequence derived from a messenger RNA (mRNA) and thus represent contiguous exonic sequences derived from a
25 corresponding genomic sequence or they may be wholly synthetic in origin for purposes of testing. Such cDNA sequences, mapping to the amplicons disclosed herein are identified in Figure 1.

 As described in the Example below, the expression of cancer-related
30 genes may be determined from the relative expression levels of the RNA complement of a cancerous cell relative to a normal (i.e., non-cancerous) cell.

Because of the processing that may take place in transforming the initial RNA transcript into the final mRNA, the sequences disclosed herein may represent less than the full genomic sequence. They may also represent sequences derived from ribosomal and transfer RNAs. Consequently, the genes present in the cell (and representing the genomic sequences) and the sequences disclosed in Figure 1, which are mostly cDNA sequences, may be identical or may be such that the cDNAs contain less than the full genomic sequence. Such genes and cDNA sequences are still considered corresponding sequences because they both encode similar RNA sequences. Thus, by way of non-limiting example only, a gene that encodes an RNA transcript, which is then processed into a shorter mRNA, is deemed to encode both such RNAs and therefore encodes an RNA complementary to (using the usual Watson-Crick complementarity rules), or that would otherwise be encoded by, a cDNA (for example, a sequence as disclosed herein). Thus, the sequences disclosed herein correspond to genes contained in the cancerous or normal cells used to determine relative levels of expression because they represent the same sequences or are complementary to RNAs encoded by these genes. Such genes also include different alleles and splice variants that may occur in the cells used in the methods of the invention.

In addition, sequences encoding the same proteins as any of these genes, regardless of the percent identity of such sequences, are also specifically contemplated by any of the methods of the present invention that rely on any or all of said sequences, regardless of how they are otherwise described or limited. Thus, any such sequences are available for use in carrying out any of the methods disclosed according to the invention. Such sequences also include any open reading frames, as defined herein, present within any genes mapping to the amplicons of the invention.

The present invention also finds use as a means of diagnosing the presence of cancer in a patient, as where a sample of cancerous tissue or cells, or tissues or cells suspected of being cancerous, are examined for elevated

expression, such as at least 2 fold expression, of a gene in one of the amplicons disclosed herein, such as an increased expression of a cDNA sequence, or polypeptide encoded by said cDNA sequence, disclosed in Figure 1 and being one of the sequences of Gene 1 – 3049.

5

For such purposes, and in accordance with the disclosure elsewhere herein, such diagnosis is based on the detection of elevated expression or amplification, such as elevated copy number, of one or more of the genes identified according to the invention. Such elevated expression can be
10 determined by any of the means described herein.

In one such embodiment, the elevated expression, as compared to normal cells and/or tissues of the same organ, is determined by measuring the relative rates of transcription of RNA, such as by production of corresponding cDNAs and
15 then analyzing the resulting DNA using probes developed from genes mapping to the amplicons of the invention. Thus, the levels of cDNA produced by use of reverse transcriptase with the full RNA complement of a cell suspected of being cancerous produces a corresponding amount of cDNA that can then be amplified using polymerase chain reaction, or some other means, such as rolling circle
20 amplification, to determine the relative levels of resulting cDNA and, thereby, the relative levels of gene expression.

For RNA analysis, the latter may be isolated from samples in a variety of ways, including lysis and denaturation with a phenolic solution containing a
25 chaotropic agent (e.g., triazol) followed by isopropanol precipitation, ethanol wash, and resuspension in aqueous solution; or lysis and denaturation followed by isolation on solid support, such as a Qiagen resin and reconstitution in aqueous solution; or lysis and denaturation in non-phenolic, aqueous solutions followed by enzymatic conversion of RNA to DNA template copies. Steady state
30 RNA levels for a given type of cell or tissue may have to be ascertained prior to

employment of the methods of the invention but such is well within the skill of those in the art and will not be further described in detail herein.

Alternatively, increased expression, such as increased copy number, may
5 be determined for the genes present in a cancerous cell, or a cell suspected of being cancerous, by determining elevated expression within the regions of interest, or amplicons, disclosed herein. Thus, the DNA of such cells may be extracted and probed for increased gene expression within the area disclosed herein as amplified in different cancer types and tissues.

10

In employing the methods of the invention, it should be borne in mind that gene expression indicative of a cancerous state need not be characteristic of every cell found to be cancerous. Thus, the methods disclosed herein are useful for detecting the presence of a cancerous condition within a tissue where less
15 than all cells exhibit the complete pattern of over-expression. For example, a set of selected genes, which are found within the regions of interest disclosed herein, may be found, using appropriate probes, either DNA or RNA, to be present in as little as 60% of cells derived from a sample of tumorous, or malignant, tissue while being absent from as much as 60% of cells derived from corresponding
20 non-cancerous, or otherwise normal, tissue (and thus being present in as much as 40% of such normal tissue cells). In a preferred embodiment, such gene pattern is found to be present in at least 70% of cells drawn from a cancerous tissue and absent from at least 70% of a corresponding normal, non-cancerous, tissue sample. In an especially preferred embodiment, such gene pattern is
25 found to be present in at least 80% of cells drawn from a cancerous tissue and absent from at least 80% of a corresponding normal, non-cancerous, tissue sample. In a most preferred embodiment, such gene pattern is found to be present in at least 90% of cells drawn from a cancerous tissue and absent from at least 90% of a corresponding normal, non-cancerous, tissue sample. In an
30 additional embodiment, such gene pattern is found to be present in at least 100% of cells drawn from a cancerous tissue and absent from at least 100% of a

corresponding normal, non-cancerous, tissue sample, although the latter embodiment may represent a rare occurrence.

5 Because changes in expression of these genes (up-regulation) are linked to the disease state (i.e. cancer), the change in expression may contribute to the initiation or progression of the disease. For example, if a gene that is up-regulated is an oncogene such a gene provides for a means of screening for small molecule therapeutics beyond screens based upon expression output alone. For example, genes that display up-regulation in cancer and whose
10 elevated expression contributes to initiation or progression of disease represent targets in screens for small molecules that inhibit or block their function. Examples include, but are not be limited to, kinase inhibition, cellular proliferation, substrate analogs that block the active site of protein targets, etc.

15 It should be noted that there are a variety of different contexts in which genes have been evaluated as being involved in the cancerous process. Thus, some genes may be oncogenes and encode proteins that are directly involved in the cancerous process and thereby promote the occurrence of cancer in an animal. Other genes may simply be involved either directly or indirectly in the
20 cancerous process or condition and may serve in an ancillary capacity with respect to the cancerous state. All such types of genes are deemed with those to be determined in accordance with the invention as disclosed herein. Thus, the gene determined by said method of the invention may be an oncogene, or the gene determined by said method may be a cancer facilitating gene, the latter
25 including a gene that directly or indirectly affects the cancerous process, either in the promotion of a cancerous condition or in facilitating the progress of cancerous growth or otherwise modulating the growth of cancer cells, either *in vivo* or *ex vivo*. Such genes may work indirectly where their expression alters the activity of some other gene or gene expression product that is itself directly
30 involved in initiating or facilitating the progress of a cancerous condition. For example, a gene that encodes a polypeptide, either wild or mutant in type, which

polypeptide acts to suppress of tumor suppressor gene, or its expression product, will thereby act indirectly to promote tumor growth.

Many cancerous genes appear to have their effect by encoding an aberrant protein that functions in a cell in a manner different from that of normal cells, or else said protein is overproduced or underproduced as a result of some mutation in the coding sequence, or promoter or enhancer sequences, of a particular gene, such as one of Genes 1 – 3049 disclosed herein and expressed by the amplicons of the invention.

In accordance with the present invention, there are provided methods for measuring the activity, such as a biological activity, of such a polypeptide. Such biological activity may include any measurable activity, such as chemical reactivity, catalytic ability, binding to specific structures and receptors, acting as a receptor, or just being present in a membrane of a cell and therefore available as a target site for antibodies or other agents. Any such polypeptides may thus provide a target for a chemotherapeutic agent, especially an antineoplastic agent.

As is well known in the art, polypeptide activities can be measured in different ways so as to enable screening procedures for agents, such as test compounds, that inhibit the activity of the polypeptide and thereby work against the function of that polypeptide, such as where the polypeptide is some type of cancer-related protein, such as that produced by expression of an oncogene, or where the polypeptide is overproduced as part of the cancer initiating or facilitating process. As non-limiting examples, such screening methods for antineoplastic agents can include the measurement of compounds that bind to proteins (or that bind to a gene or a transcript of a gene), compounds that inhibit expression (including processing and/or maturation) of a protein, or the detection of downstream reaction product, most often with specific antibodies using enzyme-linked immunosorbent

assay (ELISA) procedures well known in the art, or compounds that inhibit activity, such as enzyme activity or some other function, or compounds that interact with upstream or downstream proteins (such as with transcription factors or other binding proteins that may serve to regulate gene expression).

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In accordance with the foregoing, the present invention relates to a method for identifying a compound as an anti-neoplastic agent, comprising:

(a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

10 (b) determining a change in a biological activity of said polypeptide due to said contacting,

wherein a change in activity indicates anti-neoplastic activity and thereby identifies such test compound as an agent having antineoplastic activity.

15 In a preferred embodiment, the change in biological activity is a decrease in biological activity.

In another preferred embodiment, the biological activity is an enzyme activity, such as where the enzyme is one selected from the group kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, 20 reductase, carboxylase, transferase, deacetylase and polymerase.

Assays for these enzymes are available, such as for phosphodiesterases (the most pharmacologically relevant phosphodiesterases are those that 25 hydrolyze cyclic nucleotides (see, for example, cAMP and cGMP assays available from Perkin-Elmer, as well as Estrade et al., Eur. J. Pharmacol. 352:2-3, 157-163 (1998)).

Protein phosphatases remove phosphate residues from proteins. Most 30 tests of their activity use the same assays as for protein kinases. A non-radioactive phosphatase assay system is available from Promega Biotech.

The therapeutically most relevant dehydrogenases oxidize or reduce small molecular weight metabolites, esp. steroid hormones, or that generally use or generate NAD or NADP (see: Haeseleer et al., J. Biol. Chem., 5 273:21790-21799 (1998)). A commercial assay is available from Cayman Chemical (at www.caymanchem.com).

Gamma-carboxylases are important enzymes in the blood coagulation process. The main assay protocols use synthetic peptides (see: Ulrich et al., 10 J. Biol. Chem., 263:9697-9702 (1988); Begley et al., J. Biol. Chem., 275:36245-36249 (2000)).

In highly preferred embodiments, the kinase is one of a protein kinase, a 15 serine or threonine kinase, or a receptor tyrosine protein kinase. Where the polypeptide encoded by a gene of the invention is a protein kinase, especially involving tyrosine kinase, various assays for activity are available. Protein kinases add phosphate groups to serine, threonine or tyrosine residues on proteins, most commonly measured with phospho-serine, threonine, or 20 tyrosine-specific antibodies, or generation of radiolabeled substrate, or consumption of ATP, or phosphorylation of (synthetic) small peptides, or measuring downstream enzyme activity and gene transcription. Such assays are commercially available. (See, for example, the tyrosine kinase assay from Roche Molecular Biochemicals). Assays for serine/threonine kinases are also 25 available at Chromagen.com, Upstate Biotechnology, Inc. (Lake Placid, NY, and at upstatebiotech.com) and from Applied BioSystems (Foster City, CA (home.appliedbiosystems.com)).

In other specific embodiments, the protease is a serine protease, cysteine 30 protease or aspartic acid protease, or the transferase is a methyltransferase, preferably a cytosine methyltransferase or an adenine methyltransferase, or the

deacetylase is a histone deacetylase, or the carboxylase is a γ -carboxylase, or the peptidase is a zinc peptidase, or the polymerase is a DNA polymerase or an RNA polymerase.

5 Proteases degrade proteins, un-specifically or at specific sites. Almost all pharmacologically relevant ones have very narrowly defined specific substrates, and their activity is most often measured by directly measuring cleavage product or generation of (fluorescent) light after cleavage of synthetic substrates. Assays are available for serine proteases (Calbiochem,
10 Palo Alto, CA, and see Berdichevsky et al., J. Virol. Methods, 107:245-255 (2003), for cysteine proteases (See: Schulz et al., Mol. Pathol., 51:222-24 (1998) and Selzer et al., PNAS, 96:11015-11022 (1999)), for aspartic acid proteases (Geno Tech, Inc. at www.genotech.com) and for zinc peptidases (see Evans et al., J. Biol. Chem., 278:23180-23186 (2003)).

15 Both (regulatory) DNA-methylases and (biosynthetic) protein methylases that are drug targets. (See: Jonassen and Clarke, J. Biol. Chem., 275:12381-12387 (2000); Jackson et al., Nature, 416:556-560 (2002)).

20 Most HDAC (histone deacetylase) assays use colorimetric or fluorometric (synthetic) substrates. Standard assays are for binding, especially molecular size changes, blocking a specific site, and effects on transcription or downstream reactions (if DNA or RNA is the direct target of
25 a drug). A commercial assay is available from Vinci Biochem (at www.vincibiochem.it).

In another specific embodiment, the biological activity is a membrane transport activity, preferably wherein the polypeptide is a cation channel protein,
30 an anion channel protein, a gated-ion channel protein or an ABC transporter protein. Drug effects on the activity of transporter and channel proteins are

screened by measuring increase or decrease of the ((radio-)labeled) transported entity inside or outside the cell, in cell-based assays, ATP consumption (in the case of ATPases), or changes in cell membrane potential. Assays employing such proteins are available, such as for ABC transporter (see: Marcil et al., Lancet, 354:1341-46 (1999) and for ion channels (from Evotec OAI, at www.evotecoi.com and from PharmaLinks, at www.pharmalinks.org/research/cellsignalling).

In one embodiment, the polypeptide is an integrin (the signal transduction pathways elicited by the integrins are slow and not very well characterized, hence most assays are either just binding assays or measure downstream biological phenomena (such as migration, invasion, etc.) (See: Ganta et al., Endocrinology, 138:3606-3612 (1997); Sim et al., J. Biomed. Mater. Research, 68A:352-359 (2004); and Weinreb et al., Anal. Biochem., 306:305-313 (2002)), or a Cytochrome P450 enzyme (almost all cytochrome assays require knowledge of what the substrate is and measure conversion of substrate (free or (radio-)labeled) or generation of product; useful C¹⁴-labeled substrates are available from Amersham Biosciences at www1.amershambiosciences.com), or a nuclear hormone receptor (Assays available from Discoverx, Fremont, CA, such as an estrogen assay; also see Rosen et al., Curr. Opin. Drug. Discov. Devel., 6:224-30 (2003)).

In one preferred embodiment, the biological activity is a receptor activity, preferably where the receptor is a G-protein-coupled receptor (GPCR).

25

GPCRs are transmembrane proteins that wind 7 times back and forth through a cell's plasma membrane with a ligand binding site located on the outside of the membrane surface of the cell and the effector site being present inside the cell. These receptors bind GDP and GTP. In response to ligand binding, GPCRs activate signal transduction pathways which induce a

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number of assayable physiological changes, e.g., an increase in intracellular calcium levels, cyclic-AMP, inositol phosphate turnover, and downstream gene transcription (directly or via reporter-assays) along with other translocation assays available for measuring GPCR activation when the polypeptide encoded by a gene of the invention is a GPCR. Thus, such proteins work through a second messenger. The result is activation of CREB, a transcription factor that stimulates the production of gene products. One useful assay is the so-called BRET2/arrestin assay, useful in screening for compounds that interact with GPCRs. (See: Bertrand et al, J. Recept. Signal Transduct Res., 22:533-41 (Feb.-Nov. 2002)). In addition, numerous assays are commercially available, such as the Transfluor Assay, available from Norak Biosciences, Inc. (www.norakbio.com) or ArrayScan and KineticScan, both from Cellomics, or assays from CyBio (Jena, Germany).

Assays useful with the invention are usually set up to screen for agonists or antagonists after adding ligand, but effects on most of these parameters can be measured whether or not the ligand for the receptor is known. Such assays may involve radioligand-binding assays. Activation of the majority of GPCRs by agonists leads to the interaction of beta-arrestin (a protein that is involved in receptor desensitization and sequestration) with the receptor, which is measurable by fluorescence energy transfer

The disclosure of all journal articles, or other publications, referred to herein are hereby incorporated by reference in their entirety.

25

In one embodiment, the polypeptide is in a solution or suspension and contact with the test compound is by direct contact between the test compound and the protein molecule. Alternatively, the polypeptide may be in a cell and the test compound may have to diffuse into the cell in order to contact the polypeptide. In an alternative embodiment, the test compound may be contacted

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with a cell that contains or expresses the polypeptide but the test compound may have no direct contact with the polypeptide. In stead, the test compound may act to induce production and/or activity of a different compound, such as an intracellular second messenger that serves to contact the polypeptide and
5 modulate or change the biological activity of this polypeptide.

In accordance with the foregoing, the method of the present invention includes cancer modulating agents that are themselves either polypeptides, or small chemical entities, that affect the cancerous process, including initiation,
10 suppression or facilitation of tumor growth, either *in vivo* or *ex vivo*. Such agents may also be antibodies that react with one or more polypeptides encoded by genes present in the amplicons of the invention.

In keeping with the disclosure herein, the present invention also relates to
15 a method for treating cancer comprising contacting a cancerous cell with an agent having activity against an expression product encoded by a gene mapping within regions of chromosomal interest

The method of the present invention includes embodiments of the above-
20 recited method wherein said cancer cell is contacted *in vivo* as well as *ex vivo*, preferably wherein said agent comprises a portion, or is part of an overall molecular structure, having affinity for said expression product. In one such embodiment, said portion having affinity for said expression product is an antibody.

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In one embodiment of the present invention, a chemical agent, such as a protein or other polypeptide, is joined to an agent, such as an antibody, having affinity for an expression product of a cancerous cell, such as a polypeptide or protein encoded by a gene related to the cancerous process, especially a gene
30 mapping to an amplicon as disclosed herein In a specific embodiment, said expression product acts as a therapeutic target for the affinity portion of said

anticancer agent and where, after binding of the affinity portion of such agent to the expression product, the anti-cancer portion of said agent acts against said expression product so as to neutralize its effects in initiating, facilitating or promoting tumor formation and/or growth. In a separate embodiment of the present invention, binding of the agent to said expression product may, without more, have the effect of deterring cancer promotion, facilitation or growth, especially where the presence of said expression product is related, either intimately or only in an ancillary manner, to the development and growth of a tumor. Thus, where the presence of said expression product is essential to tumor initiation and/or growth, binding of said agent to said expression product will have the effect of negating said tumor promoting activity. In one such embodiment, said agent is an apoptosis-inducing agent that induces cell suicide, thereby killing the cancer cell and halting tumor growth.

Many cancers contain chromosomal rearrangements, which typically represent translocations, amplifications, or deletions of specific regions of genomic DNA. A recurrent chromosomal rearrangement that is associated with a specific stage and type of cancer always affects a gene (or possibly genes) that play a direct and critical role in the initiation or progression of the disease. Many of the known oncogenes or tumor suppressor genes that play direct roles in cancer have either been initially identified based upon their positional cloning from a recurrent chromosomal rearrangement or have been demonstrated to fall within a rearrangement subsequent to their cloning by other methods. In all cases, such genes display amplification at both the level of DNA copy number and at the level of transcriptional expression at the mRNA level.

In accordance with the present invention, said functionally related genes are genes modulating the same metabolic pathway or said genes are genes encoding functionally related polypeptides. In one such embodiment, said genes are genes whose expression is modulated by the same transcriptional activator or enhancer sequence, especially where said transcriptional activator or

enhancer increases, or otherwise modulates, the activity of a gene mapping to one of the amplicons of the invention.

5 The present invention also relates to a process that comprises a method for producing a product, such as test data, comprising identifying an agent according to one of the disclosed methods for identifying such an agent (i.e., the therapeutic agents identified according to the assay procedures disclosed herein) wherein said product is the data collected with respect to said agent as a result of said identification process, or assay, and wherein said data is sufficient to convey
10 the chemical character and/or structure and/or properties of said agent. For example, the present invention specifically contemplates a situation whereby a user of an assay of the invention may use the assay to screen for compounds having the desired enzyme modulating activity and, having identified the compound, then conveys that information (i.e., information as to structure, dosage, etc) to another user who then utilizes the information to reproduce the
15 agent and administer it for therapeutic or research purposes according to the invention. For example, the user of the assay (user 1) may screen a number of test compounds without knowing the structure or identity of the compounds (such as where a number of code numbers are used the first user is simply given samples labeled with said code numbers) and, after performing the screening
20 process, using one or more assay processes of the present invention, then imparts to a second user (user 2), verbally or in writing or some equivalent fashion, sufficient information to identify the compounds having a particular modulating activity (for example, the code number with the corresponding results). This transmission of information from user 1 to user 2 is specifically
25 contemplated by the present invention.

In accordance with the foregoing, the present invention relates to a method for producing test data with respect to the anti-neoplastic activity of
30 a compound, such as a test compound as defined herein, comprising:

(a) identifying a test compound as having anti-neoplastic activity using a method of the invention, such as measuring the biological activity of a polypeptide encoded by a gene of Figure 1, and

5 (b) producing test data with respect to the anti-neoplastic activity of said test compound sufficient to identify the chemical structure of said test compound.

In another embodiment, the present invention provides a method for monitoring the progress of a cancer treatment, such as where the methods of the invention permit a determination that a given course of cancer therapy is or is not
10 proving effective because of an increased or decreased expression of a gene, or genes, mapping to an amplicon as disclosed herein. For example, where there is an increased copy number of one or more of said genes monitoring of such genes can predict success or failure of a course of therapy, such as chemotherapy, or predict the likelihood of a relapse based on elevated activity or
15 expression of one or more of these genes following such course of therapy.

In accordance with the foregoing, the present invention contemplates a method for determining the progress of a treatment for cancer in a patient afflicted with cancer, following commencement of a cancer treatment on said
20 patient, comprising determining in said patient a change in expression of one or more genes, preferably more than one, corresponding to a gene of Figure 1 or encoding a polypeptide or transcript of such a gene, or genes compared to expression of said one or more determined genes prior to commencement of said cancer treatment, wherein a change in expression, especially a decrease in
25 expression, indicates positive effects of such treatment, thereby determining the progress of said treatment.

In a preferred embodiment, the detected change in expression is a decrease in expression. In another preferred embodiment, the cancer treatment
30 is treatment with a chemotherapeutic agent, especially an agent that modulates, preferably decreases, expression of a gene identified herein, such as where said

agent was first identified as having anti-neoplastic activity using a method of the invention. Thus, in accordance with this aspect of the present invention, a patient, or even a research animal, such as a mouse, rat, rabbit or primate, afflicted with cancer, including a cancer induced for research purposes, is introduced to a cancer treatment regimen, such as administration of an anti-cancer agent, including one first identified as having anti-neoplastic activity by one or more of the screening methods disclosed herein. The progress and success or failure of such treatment is subsequently ascertained by determining the subsequent expression of one or more, preferably at least 3, or 5, or 10, of genes mapping to one or more of the amplicons disclosed herein, preferably to the same amplicon, or that encodes a transcript or polypeptide of such a gene following said treatment. In a preferred embodiment, a treatment that reduces said expression is deemed advantageous and may then be the basis for continuing said treatment. The methods of the invention thereby provide a means of continually monitoring the success of the treatment and evaluating both the need, and desirability, of continuing said treatment. In addition, more than one said treatment may be administered simultaneously without diminishing the value of the methods of the invention in determining the overall success of such combined treatment. Thus, more than one said anti-neoplastic agent may be administered to the same patient and overall effectiveness ascertained by the recited methods.

In accordance with the foregoing, the present invention also contemplates a method for determining the likelihood of survival of a patient afflicted with cancer, following commencement of a cancer treatment on said patient, comprising determining in said patient a change in expression of one or more genes, preferably more than one, corresponding to a gene of Figure 1 or encoding a polypeptide or transcript of such a gene, or genes, compared to expression of said one or more determined genes prior to commencement of said cancer treatment, wherein a change in expression, especially a decrease in expression,

indicates positive and life-extending effects of such treatment, thereby determining the likelihood of survival of said treatment.

In a preferred embodiment, the detected change in expression is a decrease in expression and said determined gene, or genes, may include 2, 3, 5, 10 or more of the genes described herein. Thus, the methods of the invention may be utilized as a means for compiling cancer survival statistics following one or more, possibly combined, treatments for cancer as in keeping with the other methods disclosed herein.

The genes of the amplicons, or regions of interest, identified herein also offer themselves as pharmacodynamic markers (or as pharmacogenetic and/or surrogate markers), such as for patient profiling prior to clinical trials and/or targeted therapies, including combination treatments, resulting from the identification of these genes as valid gene targets for chemotherapy based on the screening procedures of the invention. In one embodiment thereof, the likelihood of success of a cancer treatment with a selected chemotherapeutic agent may be based on the fact that such agent has been determined to have expression modulating activity with one or more genes identified herein, especially where said genes have been identified as showing elevated expression levels in samples from a prospective patient afflicted with cancer. Methods described elsewhere herein for determining cancerous status of a cell may find ready use in such evaluations.

It should be cautioned that, in carrying out the procedures of the present invention as disclosed herein, any reference to particular buffers, media, reagents, cells, culture conditions and the like are not intended to be limiting, but are to be read so as to include all related materials that one of ordinary skill in the art would recognize as being of interest or value in the particular context in which that discussion is presented. For example, it is often possible to substitute one buffer system or culture medium for another and still achieve similar, if not

identical, results. Those of skill in the art will have sufficient knowledge of such systems and methodologies so as to be able, without undue experimentation, to make such substitutions as will optimally serve their purposes in using the methods and procedures disclosed herein.

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The present invention will now be further described by way of the following non-limiting example. In applying the disclosure of the example, it should be kept clearly in mind that other and different embodiments of the methods disclosed according to the present invention will no doubt suggest themselves to those of skill in the relevant art.

10

EXAMPLE

15

Cancerous cells that over-express one or more genes mapping to the amplicons disclosed herein, are grown to a density of 10^5 cells/cm² in Leibovitz's L-15 medium supplemented with 2 mM L-glutamine (90%) and 10% fetal bovine serum. The cells are collected after treatment with 0.25% trypsin, 0.02% EDTA at 37°C for 2 to 5 minutes. The trypsinized cells are then diluted with 30 ml growth medium and plated at a density of 50,000 cells per well in a 96 well plate (200 µl/well). The following day, cells are treated with either compound buffer alone, or compound buffer containing a chemical agent to be tested, for 24 hours. The media is then removed, the cells lysed and the RNA recovered using the RNAeasy reagents and protocol obtained from Qiagen. RNA is quantitated and 10 ng of sample in 1 µl are added to 24 µl of Taqman reaction mix containing 1X PCR buffer, RNAsin, reverse transcriptase, nucleoside triphosphates, amplitaq gold, tween 20, glycerol, bovine serum albumin (BSA) and specific PCR primers and probes for a reference gene (18S RNA) and a test gene (Gene X). Reverse transcription is then carried out at 48°C for 30 minutes. The sample is then applied to a Perlin Elmer 7700 sequence detector and heat denatured for 10 minutes at 95°C. Amplification is performed through 40 cycles using 15 seconds

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annealing at 60°C followed by a 60 second extension at 72°C and 30 second denaturation at 95°C. Data files are then captured and the data analyzed with the appropriate baseline windows and thresholds.

- 5 The quantitative difference between the target and reference genes is then calculated and a relative expression value determined for all of the samples used. This procedure is then repeated for each of the target genes in a given signature, or characteristic, set and the relative expression ratios for each pair of genes is determined (i.e., a ratio of expression is determined for each target
- 10 gene versus each of the other genes for which expression is measured, where each gene's absolute expression is determined relative to the reference gene for each compound, or chemical agent, to be screened). The samples are then scored and ranked according to the degree of alteration of the expression profile in the treated samples relative to the control. The overall expression of the set of
- 15 genes relative to the controls, as modulated by one chemical agent relative to another, is also ascertained. Chemical agents having the most effect on a given gene, or set of genes, are considered the most anti-neoplastic.

Table 3 – Amplicon Identification

| Amplicon | Transcript Id | Name | Chromosome | bpstart | bp |
|----------|--------------------|------------------|------------|-----------|-----------|
| A1 | ENST00000303924 | HAS2 t | 8 | 122582937 | 122598168 |
| A1 | ENSESTT00000046662 | | 8 | 122585931 | 122609941 |
| A1 | ENSESTT00000046660 | | 8 | 122608522 | 122610061 |
| A1 | ENSESTT00000046661 | | 8 | 122640599 | 122653390 |
| A1 | ENST00000328524 | NM_014943 | 8 | 123738119 | 123738958 |
| A1 | ENSESTT00000047108 | | 8 | 123750171 | 123920219 |
| A1 | ENST00000314393 | | 8 | 123750577 | 123943336 |
| A1 | ENSESTT00000047109 | | 8 | 123789727 | 123790358 |
| A1 | ENSESTT00000047110 | NM_024295 | 8 | 123921884 | 123943336 |
| A1 | ENSESTT00000047116 | | 8 | 123983935 | 123988137 |
| A1 | ENSESTT00000047111 | | 8 | 123983935 | 124011208 |
| A1 | ENSESTT00000047112 | | 8 | 123983935 | 124011208 |
| A1 | ENST00000259512 | NM_145647 | 8 | 123984034 | 124011088 |
| A1 | ENSESTT00000047115 | | 8 | 123984041 | 123990329 |
| A1 | ENSESTT00000047114 | | 8 | 123987689 | 123999547 |
| A1 | ENSESTT00000047113 | | 8 | 123991511 | 124011208 |
| A1 | ENSESTT00000065616 | Q8TAK7 Q8TAK7 | 8 | 124041564 | 124062478 |
| A1 | ENST00000287380 | | 8 | 124041598 | 124120767 |
| A1 | ENSESTT00000065617 | | 8 | 124042077 | 124066211 |
| A1 | ENST00000309336 | | 8 | 124046061 | 124098030 |
| A1 | ENST00000327098 | Q86UY5 | 8 | 124062489 | 124073028 |
| A1 | ENSESTT00000065618 | | 8 | 124074181 | 124088995 |
| A1 | ENSESTT00000065619 | | 8 | 124094878 | 124098018 |
| A1 | ENSESTT00000065620 | | 8 | 124099026 | 124120981 |
| A1 | ENSESTT00000065621 | NM_032899 | 8 | 124109587 | 124120981 |
| A1 | ENSESTT00000065622 | | 8 | 124109691 | 124120981 |
| A1 | ENST00000318462 | | 8 | 124147875 | 124177793 |
| A1 | ENSESTT00000065624 | | 8 | 124151533 | 124162903 |
| A1 | ENSESTT00000065623 | NM_032899 | 8 | 124151533 | 124177809 |
| A1 | ENST00000276699 | | 8 | 124151685 | 124176255 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|-----------|--|---|-----------|-----------|
| A1 | ENSESTT000000065671 | | | 8 | 124188795 | 124210200 |
| A1 | ENST00000276704 | NM_032847 | | 8 | 124188931 | 124210174 |
| A1 | ENSESTT000000065672 | | | 8 | 124189023 | 124210138 |
| A1 | ENSESTT000000065673 | | | 8 | 124195324 | 124210138 |
| A1 | ENSESTT000000065668 | | | 8 | 124218685 | 124236123 |
| A1 | ENST00000297857 | ZHX1 | | 8 | 124222153 | 124224774 |
| A1 | ENSESTT000000065670 | | | 8 | 124224524 | 124243082 |
| A1 | ENSESTT000000065669 | | | 8 | 124224572 | 124243107 |
| A1 | ENST00000309019 | | | 8 | 124284858 | 124285232 |
| A1 | ENST00000287394 | NM_014109 | | 8 | 124289962 | 124365185 |
| A1 | ENSESTT000000065666 | | | 8 | 124294833 | 124315051 |
| A1 | ENSESTT000000065667 | | | 8 | 124305201 | 124313890 |
| A1 | ENSESTT000000065665 | | | 8 | 124315497 | 124328452 |
| A1 | ENST00000329771 | | | 8 | 124369449 | 124370499 |
| A1 | NST00000287387 | M_018024 | | 8 | 124385553 | 124410848 |
| A1 | NSESTT000000065625 | | | 8 | 124385553 | 124410849 |
| A1 | ENSESTT000000065626 | | | 8 | 124385601 | 124410849 |
| A1 | ENSESTT000000065627 | | | 8 | 124385602 | 124410849 |
| A1 | ENSESTT000000065628 | | | 8 | 124385602 | 124410849 |
| A1 | ENST00000287396 | FBX032 | | 8 | 124471947 | 124510034 |
| A1 | ENSESTT000000065664 | | | 8 | 124472004 | 124500973 |
| A1 | ENSESTT000000065662 | | | 8 | 124472004 | 124510034 |
| A1 | ENSESTT000000065663 | | | 8 | 124483080 | 124510034 |
| A1 | ENST00000325995 | | | 8 | 124614600 | 124621754 |
| A1 | ENST00000330051 | | | 8 | 124614651 | 124621727 |
| A1 | ENST00000329589 | | | 8 | 124614654 | 124621727 |
| A1 | ENSESTT000000065661 | | | 8 | 124649681 | 124657768 |
| A1 | ENST00000262219 | ANXA13 | | 8 | 124650068 | 124681581 |
| A1 | ENSESTT000000065659 | | | 8 | 124662584 | 124706220 |
| A1 | ENSESTT000000065660 | | | 8 | 124667216 | 124706214 |
| A1 | ENST00000334705 | Q8N6F3 | | 8 | 124737531 | 124744075 |
| A1 | ENST00000325963 | NM_144963 | | 8 | 124747485 | 124784276 |
| A1 | ENSESTT000000065657 | | | 8 | 124749308 | 124767066 |
| A1 | ENSESTT000000065656 | | | 8 | 124753384 | 124767066 |

TABLE 3 (Continued)

| | | | | | | |
|----|--------------------|-----------|--|---|-----------|-----------|
| A1 | ENSESTT00000065658 | | | 8 | 124777101 | 124779458 |
| A1 | ENST00000297628 | | | 8 | 124934987 | 124955009 |
| A1 | ENST00000321393 | NM_173684 | | 8 | 124982464 | 124984850 |
| A1 | ENSESTT00000049471 | | | 8 | 125004837 | 125009297 |
| A1 | ENST00000308614 | NM_182525 | | 8 | 125014902 | 125029621 |
| A1 | ENST00000330102 | | | 8 | 125045027 | 125088508 |
| A1 | ENST00000327482 | | | 8 | 125120753 | 125121402 |
| A1 | ENST00000297632 | Q8WVK5 | | 8 | 125280819 | 125341514 |
| A1 | ENSESTT00000049470 | | | 8 | 125282330 | 125296251 |
| A1 | ENST00000328599 | NM_017956 | | 8 | 125419757 | 125421103 |
| A1 | ENSESTT00000049469 | | | 8 | 125441637 | 125443183 |
| A1 | ENSESTT00000049445 | | | 8 | 125443596 | 125455222 |
| A1 | ENST00000303545 | RNF139 | | 8 | 125443702 | 125456727 |
| A1 | ENSESTT00000049468 | | | 8 | 125454689 | 125456214 |
| A1 | ENSESTT00000049466 | | | 8 | 125457337 | 125491832 |
| A1 | ENSESTT00000049464 | | | 8 | 125457337 | 125507878 |
| A1 | ENSESTT00000049463 | | | 8 | 125457337 | 125507907 |
| A1 | ENSESTT00000049461 | | | 8 | 125457337 | 125507908 |
| A1 | ENSESTT00000049458 | | | 8 | 125457337 | 125507913 |
| A1 | ENSESTT00000049467 | | | 8 | 125457339 | 125472731 |
| A1 | ENSESTT00000049462 | | | 8 | 125457339 | 125507908 |
| A1 | ENST00000276692 | NM_032026 | | 8 | 125457339 | 125507917 |
| A1 | ENSESTT00000049465 | | | 8 | 125472748 | 125507878 |
| A1 | ENSESTT00000049459 | | | 8 | 125472748 | 125507913 |
| A1 | ENSESTT00000049460 | | | 8 | 125473099 | 125507913 |
| A1 | ENST00000276689 | NDUFB9 | | 8 | 125507932 | 125518808 |
| A1 | ENSESTT00000049446 | | | 8 | 125507947 | 125518807 |
| A1 | ENST00000325064 | MTSS1 | | 8 | 125519619 | 125697247 |
| A1 | ENSESTT00000049457 | | | 8 | 125521907 | 125524630 |
| A1 | ENSESTT00000049456 | | | 8 | 125525191 | 125526708 |
| A1 | ENSESTT00000049455 | | | 8 | 125526532 | 125537360 |
| A1 | ENSESTT00000049453 | | | 8 | 125553967 | 125697188 |
| A1 | ENSESTT00000049454 | | | 8 | 125668151 | 125697188 |
| A1 | ENST00000319286 | NM_152412 | | 8 | 125942128 | 125948216 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|--|------------|---|-----------|-----------|
| A1 | ENSESTT000000049452 | | | | 125965815 | 125967028 |
| A1 | ENST00000265896 | | SQL | 8 | 125968234 | 125990776 |
| A1 | ENSESTT00000049447 | | | 8 | 125974452 | 125989666 |
| A1 | ENSESTT00000049451 | | | 8 | 125987460 | 125991054 |
| A1 | ENSESTT00000049448 | | | 8 | 125993091 | 125997546 |
| A1 | ENSESTT00000049450 | | | 8 | 125993091 | 126001545 |
| A1 | ENSESTT00000049449 | | | 8 | 125993091 | 126006166 |
| A1 | ENST00000318410 | | Y196_HUMAN | 8 | 125993448 | 126052729 |
| A1 | ENSESTT00000052951 | | | 8 | 126001094 | 126012931 |
| A1 | ENSESTT00000052952 | | | 8 | 126001094 | 126012931 |
| A1 | ENSESTT00000052949 | | | 8 | 126001094 | 126013531 |
| A1 | ENSESTT00000052944 | | | 8 | 126001094 | 126032404 |
| A1 | ENSESTT00000052945 | | | 8 | 126001094 | 126032404 |
| A1 | ENSESTT00000052953 | | | 8 | 126001148 | 126008731 |
| A1 | ENSESTT00000052950 | | | 8 | 126006063 | 126013531 |
| A1 | ENSESTT00000052946 | | | 8 | 126006063 | 126032404 |
| A1 | ENSESTT00000052948 | | | 8 | 126012674 | 126016164 |
| A1 | ENSESTT00000052947 | | | 8 | 126013317 | 126032404 |
| A1 | ENSESTT00000052943 | | | 8 | 126036476 | 126043900 |
| A1 | ENSESTT00000052941 | | | 8 | 126045186 | 126060614 |
| A1 | ENSESTT00000052942 | | | 8 | 126051717 | 126060573 |
| A1 | ENST00000287437 | | NM_173685 | 8 | 126060684 | 126335950 |
| A1 | ENSESTT00000052921 | | | 8 | 126060694 | 126120112 |
| A1 | ENSESTT00000052935 | | | 8 | 126060694 | 126151406 |
| A1 | ENSESTT00000052934 | | | 8 | 126060694 | 126326148 |
| A1 | ENSESTT00000052931 | | | 8 | 126060694 | 126326652 |
| A1 | ENSESTT00000052932 | | | 8 | 126060694 | 126326652 |
| A1 | ENSESTT00000052933 | | | 8 | 126060694 | 126326652 |
| A1 | ENSESTT00000052929 | | | 8 | 126060694 | 126335951 |
| A1 | ENSESTT00000052930 | | | 8 | 126060694 | 126335951 |
| A1 | ENSESTT00000052924 | | | 8 | 126060717 | 126151406 |
| A1 | ENSESTT00000052923 | | | 8 | 126060717 | 126326652 |
| A1 | ENSESTT00000052922 | | | 8 | 126060717 | 126335951 |
| A1 | ENSESTT00000052926 | | | 8 | 126060741 | 126151406 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|----|-----------|-----------|
| A1 | ENSESTT00000052925 | 8 | 126060741 | 126326659 |
| A1 | ENSESTT00000052927 | 8 | 126150930 | 126335951 |
| A1 | ENSESTT00000052940 | 8 | 126317027 | 126320247 |
| A1 | ENSESTT00000052928 | 8 | 126326536 | 126335951 |
| A1 | ENST000000311922 | 8 | 126399453 | 126407235 |
| A1 | ENSESTT00000052936 | 8 | 126399454 | 126404869 |
| A1 | ENSESTT00000052939 | 8 | 126400000 | 126402312 |
| A1 | ENSESTT00000052937 | 8 | 126402477 | 126405286 |
| A1 | ENST000000311709 | 8 | 126552574 | 126553590 |
| A1 | ENSESTT00000052938 | 8 | 126914570 | 126919779 |
| A1 | ENST000000329599 | 8 | 127041420 | 127043050 |
| A1 | ENSESTT00000046663 | 8 | 127466983 | 127469137 |
| A1 | ENSESTT00000046664 | 8 | 127487532 | 127491189 |
| A2 | ENSESTT00000040368 | 13 | 96395910 | 96638676 |
| A2 | ENSESTT00000040357 | 13 | 96493435 | 96594999 |
| A2 | OTTHUMT00013002849 | 13 | 96493435 | 96595559 |
| A2 | ENSESTT00000040356 | 13 | 96493435 | 96762294 |
| A2 | OTTHUMT00013002844 | 13 | 96493435 | 96800024 |
| A2 | ENST000000319562 | 13 | 96493506 | 96798828 |
| A2 | ENSESTT00000040369 | 13 | 96526040 | 96526774 |
| A2 | OTTHUMT00013002835 | 13 | 96526040 | 96527520 |
| A2 | OTTHUMT00013002834 | 13 | 96526425 | 96527547 |
| A2 | ENST000000267291 | 13 | 96526535 | 96527491 |
| A2 | OTTHUMT00013002839 | 13 | 96678973 | 96683493 |
| A2 | OTTHUMT00013002838 | 13 | 96679135 | 96683493 |
| A2 | ENSESTT00000040358 | 13 | 96715645 | 96762294 |
| A2 | OTTHUMT00013002845 | 13 | 96734616 | 96736041 |
| A2 | OTTHUMT00013002846 | 13 | 96754326 | 96762232 |
| A2 | OTTHUMT00013002847 | 13 | 96759593 | 96775753 |
| A2 | OTTHUMT00013002848 | 13 | 96781485 | 96786357 |
| A2 | OTTHUMT00013002842 | 13 | 96785660 | 96786095 |
| A2 | ENSESTT00000040359 | 13 | 96789051 | 96798697 |
| A2 | OTTHUMT00013002862 | 13 | 96800456 | 96816816 |
| A2 | OTTHUMT00013002859 | 13 | 96800456 | 96872252 |

TABLE 3 (Continued)

| | | | | |
|-----------------------|----------------|----|----------|----------|
| A2 OTTHUMT00013002858 | STK24-001 | 13 | 96800456 | 96927118 |
| A2 ENSESTT00000040367 | | 13 | 96802878 | 96810698 |
| A2 ENSESTT00000040366 | | 13 | 96802878 | 96816333 |
| A2 ENSESTT00000040365 | | 13 | 96802878 | 96825181 |
| A2 ENSESTT00000040363 | | 13 | 96802878 | 96825239 |
| A2 ENSESTT00000040360 | | 13 | 96802878 | 96927359 |
| A2 ENSESTT00000040361 | | 13 | 96802878 | 96927359 |
| A2 ENST00000261573 | STK24 | 13 | 96803428 | 96872107 |
| A2 OTTHUMT00013002863 | STK24-006 | 13 | 96805676 | 96814040 |
| A2 OTTHUMT00013002860 | STK24-003 | 13 | 96806237 | 96869522 |
| A2 ENSESTT00000040364 | | 13 | 96812027 | 96825239 |
| A2 OTTHUMT00013002861 | STK24-004 | 13 | 96825116 | 96928195 |
| A2 OTTHUMT00013002864 | STK24-007 | 13 | 96855283 | 96926459 |
| A2 ENSESTT00000040362 | | 13 | 96855283 | 96926459 |
| A2 ENST00000313290 | Q8WYY0 | 13 | 96886851 | 96887246 |
| A2 OTTHUMT00013002856 | bA295B17.5-001 | 13 | 96927499 | 96929085 |
| A2 OTTHUMT00013002872 | bA295B17.2-001 | 13 | 96960547 | 96961131 |
| A2 OTTHUMT00013002874 | bA295B17.3-001 | 13 | 96979939 | 96980244 |
| A2 OTTHUMT00013002876 | bA295B17.4-001 | 13 | 96991069 | 96991494 |
| A2 OTTHUMT00013002878 | SLC15A1-001 | 13 | 97034056 | 97102908 |
| A2 ENST00000218552 | SLC15A1 | 13 | 97034979 | 97076822 |
| A2 OTTHUMT00013002879 | SLC15A1-002 | 13 | 97070782 | 97076822 |
| A2 ENST00000313260 | O14496 | 13 | 97071712 | 97076756 |
| A2 OTTHUMT00013002899 | bA155N3.2-010 | 13 | 97143742 | 97182048 |
| A2 OTTHUMT00013002890 | bA155N3.2-001 | 13 | 97143742 | 97328245 |
| A2 ENSESTT00000040495 | | 13 | 97144240 | 97147514 |
| A2 ENSESTT00000040494 | | 13 | 97144240 | 97150734 |
| A2 ENST00000301980 | DOC9 HUMAN | 13 | 97147367 | 97436606 |
| A2 OTTHUMT00013002902 | bA155N3.2-013 | 13 | 97150543 | 97179710 |
| A2 OTTHUMT00013002901 | bA155N3.2-012 | 13 | 97157916 | 97179621 |
| A2 OTTHUMT00013002898 | bA155N3.2-009 | 13 | 97159564 | 97197939 |
| A2 ENSESTT00000040492 | | 13 | 97160444 | 97203725 |
| A2 ENSESTT00000040493 | | 13 | 97160510 | 97182047 |
| A2 OTTHUMT00013002900 | bA155N3.2-011 | 13 | 97160514 | 97179751 |

TABLE 3 (Continued)

| | | | | |
|-----------------------|----------------|----|----------|----------|
| A2 OTTHUMT00013002896 | bA155N3.2-007 | 13 | 97181651 | 97206239 |
| A2 OTTHUMT00013002895 | bA155N3.2-006 | 13 | 97182029 | 97200335 |
| A2 OTTHUMT00013002882 | bA155N3.3-001 | 13 | 97182339 | 97184884 |
| A2 OTTHUMT00013002894 | bA155N3.2-005 | 13 | 97196203 | 97210731 |
| A2 ENSESTT00000040491 | | 13 | 97206155 | 97213319 |
| A2 OTTHUMT00013002897 | bA155N3.2-008 | 13 | 97210436 | 97213803 |
| A2 ENSESTT00000040490 | | 13 | 97210439 | 97213399 |
| A2 ENSESTT00000040489 | | 13 | 97217686 | 97230930 |
| A2 ENSESTT00000040488 | | 13 | 97234078 | 97238454 |
| A2 OTTHUMT00013002893 | bA155N3.2-004 | 13 | 97238390 | 97238940 |
| A2 ENSESTT00000040487 | | 13 | 97253255 | 97271344 |
| A2 ENSESTT00000040486 | | 13 | 97253255 | 97276111 |
| A2 OTTHUMT00013002891 | bA155N3.2-002 | 13 | 97272306 | 97436880 |
| A2 ENST000000333692 | | 13 | 97300012 | 97300702 |
| A2 OTTHUMT00013002884 | bA318G11.2-001 | 13 | 97300012 | 97300702 |
| A2 OTTHUMT00013002892 | bA155N3.2-003 | 13 | 97305690 | 97436648 |
| A2 ENSESTT00000040485 | | 13 | 97305748 | 97436584 |
| A2 OTTHUMT00013002888 | bA122A8.3-001 | 13 | 97523848 | 97524745 |
| A2 OTTHUMT00013002886 | bA122A8.1-001 | 13 | 97540834 | 97541246 |
| A2 ENST000000325317 | | 13 | 97541028 | 97541237 |
| A2 OTTHUMT00013002916 | bA87L10.1-001 | 13 | 97546697 | 97550965 |
| A2 OTTHUMT00013002917 | bA87L10.1-002 | 13 | 97546697 | 97550965 |
| A2 ENSESTT00000040484 | | 13 | 97547656 | 97550936 |
| A2 OTTHUMT00013002939 | bA178C10.1-008 | 13 | 97551029 | 97735570 |
| A2 OTTHUMT00013002933 | bA178C10.1-002 | 13 | 97551029 | 97735795 |
| A2 ENSESTT00000040442 | | 13 | 97551031 | 97736683 |
| A2 ENSESTT00000040438 | | 13 | 97551081 | 97718301 |
| A2 ENSESTT00000040437 | | 13 | 97551081 | 97736683 |
| A2 ENSESTT00000040439 | | 13 | 97551109 | 97664477 |
| A2 OTTHUMT00013002940 | bA178C10.1-009 | 13 | 97551142 | 97690820 |
| A2 OTTHUMT00013002942 | bA178C10.1-011 | 13 | 97551147 | 97664475 |
| A2 ENSESTT00000040440 | | 13 | 97551164 | 97718142 |
| A2 OTTHUMT00013002932 | bA178C10.1-001 | 13 | 97551164 | 97736689 |
| A2 OTTHUMT00013002941 | bA178C10.1-010 | 13 | 97551171 | 97594879 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|----------------|--|----|----------|----------|
| A2 | ENSESTT000000040441 | | | 13 | 97551172 | 97736683 |
| A2 | ENST00000257320 | PHGDHL1 | | 13 | 97551667 | 97735590 |
| A2 | OTTHUMT00013002920 | bA461N23.2-001 | | 13 | 97565231 | 97566117 |
| A2 | ENST00000325202 | | | 13 | 97565627 | 97566013 |
| A2 | ENST00000325028 | PHGDHL1 | | 13 | 97588684 | 97735590 |
| A2 | OTTHUMT00013002934 | bA178C10.1-003 | | 13 | 97594770 | 97736689 |
| A2 | OTTHUMT00013002928 | GPR18-001 | | 13 | 97604987 | 97611999 |
| A2 | ENST00000245300 | GPR18 | | 13 | 97604995 | 97608642 |
| A2 | ENSESTT00000040482 | | | 13 | 97605550 | 97608614 |
| A2 | OTTHUMT00013002929 | GPR18-002 | | 13 | 97605834 | 97608629 |
| A2 | ENSESTT00000040483 | | | 13 | 97606624 | 97608610 |
| A2 | OTTHUMT00013002922 | EBI2-001 | | 13 | 97644794 | 97657708 |
| A2 | ENST00000301931 | EBI2 | | 13 | 97644799 | 97657654 |
| A2 | ENSESTT00000040481 | | | 13 | 97645785 | 97657708 |
| A2 | OTTHUMT00013002937 | bA178C10.1-006 | | 13 | 97658207 | 97735649 |
| A2 | OTTHUMT00013002935 | bA178C10.1-004 | | 13 | 97663038 | 97736689 |
| A2 | OTTHUMT00013002936 | bA178C10.1-005 | | 13 | 97664963 | 97735953 |
| A2 | OTTHUMT00013002924 | bA461N23.5-001 | | 13 | 97668409 | 97669210 |
| A2 | OTTHUMT00013002926 | bA461N23.6-001 | | 13 | 97701675 | 97702282 |
| A2 | OTTHUMT00013002938 | bA178C10.1-007 | | 13 | 97718042 | 97727821 |
| A2 | OTTHUMT00013002954 | bA178C10.2-001 | | 13 | 97722428 | 97722941 |
| A2 | ENSESTT00000040480 | | | 13 | 97736300 | 97736679 |
| A2 | ENSESTT00000040479 | | | 13 | 97756206 | 97759085 |
| A2 | OTTHUMT00013002956 | bA178C10.3-001 | | 13 | 97758036 | 97759317 |
| A2 | OTTHUMT00013002960 | bA214F16.3-001 | | 13 | 97841538 | 97842752 |
| A2 | OTTHUMT00013002958 | bA214F16.2-001 | | 13 | 97849982 | 97851307 |
| A2 | ENSESTT00000040461 | | | 13 | 97851670 | 97897704 |
| A2 | ENSESTT00000040460 | | | 13 | 97851670 | 97905912 |
| A2 | ENSESTT00000040457 | | | 13 | 97851670 | 97913646 |
| A2 | ENSESTT00000040458 | | | 13 | 97851670 | 97913646 |
| A2 | ENSESTT00000040459 | | | 13 | 97851670 | 97913646 |
| A2 | ENSESTT00000040462 | | | 13 | 97851727 | 97867945 |
| A2 | OTTHUMT00013002963 | TM9SF2-002 | | 13 | 97851729 | 97897328 |
| A2 | OTTHUMT00013002962 | TM9SF2-001 | | 13 | 97851729 | 97913644 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|----|----------|----------|
| A2 | ENST000000245361 | TM9SF2 | 13 | 97851862 | 97913013 |
| A2 | OTTHUMT00013002964 | TM9SF2-003 | 13 | 97864470 | 97888117 |
| A2 | ENSESTT00000040467 | | 13 | 97886862 | 97897704 |
| A2 | ENSESTT00000040466 | | 13 | 97886862 | 97905912 |
| A2 | ENSESTT00000040463 | | 13 | 97886862 | 97913646 |
| A2 | ENSESTT00000040464 | | 13 | 97886862 | 97913646 |
| A2 | ENSESTT00000040465 | | 13 | 97886862 | 97913646 |
| A2 | ENSESTT00000040468 | | 13 | 97890373 | 97891991 |
| A2 | OTTHUMT00013002965 | | 13 | 97890766 | 97891991 |
| A2 | ENSESTT00000040471 | TM9SF2-004 | 13 | 97891812 | 97905912 |
| A2 | ENSESTT00000040469 | | 13 | 97891812 | 97913646 |
| A2 | ENSESTT00000040470 | | 13 | 97891812 | 97913646 |
| A2 | ENSESTT00000040473 | | 13 | 97897238 | 97905912 |
| A2 | ENSESTT00000040472 | | 13 | 97897238 | 97909646 |
| A2 | ENSESTT00000040474 | | 13 | 97899412 | 97905912 |
| A2 | ENSESTT00000040476 | | 13 | 97912182 | 97912840 |
| A2 | OTTHUMT00013002970 | bA214F16.4-001 | 13 | 97927367 | 97930623 |
| A2 | OTTHUMT00013002972 | bA214F16.5-001 | 13 | 97932961 | 97933435 |
| A2 | ENSESTT00000040478 | | 13 | 97956924 | 98215198 |
| A2 | ENSESTT00000040477 | | 13 | 97956924 | 98221218 |
| A2 | OTTHUMT00013002980 | CLYBL-001 | 13 | 97956924 | 98242825 |
| A2 | ENST000000323941 | CLYBL | 13 | 97956937 | 98242824 |
| A2 | OTTHUMT00013002981 | CLYBL-002 | 13 | 97956945 | 98241868 |
| A2 | OTTHUMT00013002982 | CLYBL-003 | 13 | 97956951 | 98242819 |
| A2 | OTTHUMT00013002974 | bA279D17.1-001 | 13 | 98040336 | 98041226 |
| A2 | OTTHUMT00013002976 | bA279D17.2-001 | 13 | 98076502 | 98077746 |
| A2 | ENSESTT00000040339 | | 13 | 98076717 | 98079197 |
| A2 | ENSESTT00000040309 | | 13 | 98123162 | 98215493 |
| A2 | OTTHUMT00013002978 | bA134O15.2-001 | 13 | 98124280 | 98125544 |
| A2 | OTTHUMT00013002983 | CLYBL-004 | 13 | 98209116 | 98215493 |
| A2 | OTTHUMT00013002984 | CLYBL-005 | 13 | 98209116 | 98215493 |
| A2 | ENSESTT00000040310 | | 13 | 98213298 | 98242825 |
| A2 | ENSESTT00000040311 | | 13 | 98215060 | 98242825 |
| A2 | ENSESTT00000040312 | | 13 | 98215103 | 98242825 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|----|----------|----------|
| A2 | OTTHUMT00013002986 | CLYBL-007 | 13 | 98216572 | 98243149 |
| A2 | ENSESTT00000040313 | | 13 | 98216572 | 98243149 |
| A2 | OTTHUMT00013002985 | CLYBL-006 | 13 | 98221273 | 98241868 |
| A2 | ENSESTT00000040314 | | 13 | 98235260 | 98241868 |
| A2 | OTTHUMT00013003004 | bA12G12.1-001 | 13 | 98315452 | 98322164 |
| A2 | ENST000000267294 | ZIC5 | 13 | 98315452 | 98322179 |
| A2 | OTTHUMT00013002994 | ZIC2-001 | 13 | 98332294 | 98337019 |
| A2 | ENST000000245295 | ZIC2 | 13 | 98332320 | 98337019 |
| A2 | ENSESTT00000040315 | | 13 | 98332599 | 98335720 |
| A2 | OTTHUMT00013002995 | ZIC2-002 | 13 | 98334544 | 98335747 |
| A2 | ENSESTT00000040316 | | 13 | 98334544 | 98335747 |
| A2 | OTTHUMT00013002997 | ZIC2-004 | 13 | 98334944 | 98335747 |
| A2 | ENSESTT00000040317 | | 13 | 98334944 | 98335747 |
| A2 | OTTHUMT00013002998 | ZIC2-005 | 13 | 98335044 | 98335729 |
| A2 | ENSESTT00000040318 | | 13 | 98335044 | 98335729 |
| A2 | ENSESTT00000040319 | | 13 | 98335196 | 98335747 |
| A2 | OTTHUMT00013002996 | ZIC2-003 | 13 | 98335749 | 98336159 |
| A2 | ENSESTT00000040320 | | 13 | 98335749 | 98336160 |
| A2 | OTTHUMT00013003006 | bA12G12.3-001 | 13 | 98378024 | 98378429 |
| A2 | OTTHUMT00013003008 | bA12G12.4-001 | 13 | 98412551 | 98413856 |
| A2 | ENSESTT00000040321 | | 13 | 98439330 | 98660115 |
| A2 | OTTHUMT00013003012 | PCCA-001 | 13 | 98439338 | 98880687 |
| A2 | ENSESTT00000040322 | | 13 | 98439361 | 98660115 |
| A2 | ENSESTT00000040323 | | 13 | 98439372 | 98660115 |
| A2 | ENSESTT00000040324 | | 13 | 98439395 | 98660115 |
| A2 | ENST000000310787 | PCCA | 13 | 98453138 | 98880421 |
| A2 | OTTHUMT00013003017 | PCCA-006 | 13 | 98499456 | 98511880 |
| A2 | OTTHUMT00013003010 | bA340C20.2-001 | 13 | 98500772 | 98501347 |
| A2 | ENSESTT00000040325 | | 13 | 98585858 | 98660115 |
| A2 | OTTHUMT00013003014 | PCCA-003 | 13 | 98643479 | 98775986 |
| A2 | ENSESTT00000040326 | | 13 | 98643479 | 98881032 |
| A2 | ENSESTT00000040327 | | 13 | 98643479 | 98881032 |
| A2 | ENSESTT00000040328 | | 13 | 98643479 | 98881032 |
| A2 | OTTHUMT00013003013 | PCCA-002 | 13 | 98656031 | 98690514 |

| | | | | | |
|----|--------------------|----------------|----|----------|----------|
| A2 | ENSESTT00000040329 | | 13 | 98660116 | 98881039 |
| A2 | OTTHUMT00013003015 | PCCA-004 | 13 | 98718727 | 98880687 |
| A2 | OTTHUMT00013003016 | PCCA-005 | 13 | 98718754 | 98842072 |
| A2 | OTTHUMT00013003028 | bA151A6.5-001 | 13 | 98814695 | 98830540 |
| A2 | OTTHUMT00013003030 | bA151A6.5-003 | 13 | 98829802 | 98831270 |
| A2 | OTTHUMT00013003029 | bA151A6.5-002 | 13 | 98829814 | 98831412 |
| A2 | ENSESTT00000040330 | | 13 | 98865680 | 98881032 |
| A2 | OTTHUMT00013003018 | PCCA-007 | 13 | 98865682 | 98880687 |
| A2 | OTTHUMT00013003052 | bA151A6.2-001 | 13 | 98881802 | 98934252 |
| A2 | ENST00000257302 | Q9BT41 | 13 | 98881812 | 98883998 |
| A2 | ENSESTT00000040335 | | 13 | 98882280 | 98934255 |
| A2 | ENSESTT00000040336 | | 13 | 98882742 | 98934255 |
| A2 | ENSESTT00000040338 | | 13 | 98882742 | 98939783 |
| A2 | OTTHUMT00013003055 | bA151A6.2-004 | 13 | 98882750 | 98883924 |
| A2 | OTTHUMT00013003054 | bA151A6.2-003 | 13 | 98882750 | 98939783 |
| A2 | ENSESTT00000040337 | | 13 | 98882766 | 93883908 |
| A2 | OTTHUMT00013003056 | bA151A6.2-005 | 13 | 98882769 | 98883908 |
| A2 | OTTHUMT00013003053 | bA151A6.2-002 | 13 | 98882769 | 98938986 |
| A2 | OTTHUMT00013003034 | bA151A6.4-001 | 13 | 98887578 | 98930372 |
| A2 | OTTHUMT00013003026 | bA151A6.3-001 | 13 | 98890071 | 98890529 |
| A2 | ENST00000245316 | | 13 | 98890156 | 98890503 |
| A2 | OTTHUMT00013003036 | bA113J24.1-001 | 13 | 98954189 | 99025171 |
| A2 | OTTHUMT00013003037 | bA113J24.1-002 | 13 | 98954189 | 99025171 |
| A2 | ENST00000245302 | NM_032813 | 13 | 98955249 | 98989063 |
| A2 | ENSESTT00000040332 | | 13 | 98975664 | 98987865 |
| A2 | ENSESTT00000040334 | | 13 | 98975708 | 98986863 |
| A2 | OTTHUMT00013003038 | bA113J24.1-003 | 13 | 98975708 | 98992566 |
| A2 | OTTHUMT00013003042 | bA113J24.1-007 | 13 | 98975790 | 98986863 |
| A2 | ENSESTT00000040333 | | 13 | 98976035 | 98987865 |
| A2 | OTTHUMT00013003041 | bA113J24.1-006 | 13 | 98985320 | 98986887 |
| A2 | OTTHUMT00013003039 | bA113J24.1-004 | 13 | 98992475 | 99025134 |
| A2 | ENSESTT00000040331 | | 13 | 98992500 | 99014571 |
| A2 | ENSESTT00000040306 | | 13 | 99006632 | 99025080 |
| A2 | ENSESTT00000040307 | | 13 | 99013216 | 99025060 |

| | | | | |
|----|---------------------|----|-----------|-----------|
| A2 | ENSESTT000000040308 | 13 | 99018487 | 99020990 |
| A2 | ENSESTT000000040305 | 13 | 99018833 | 99025134 |
| A2 | OTTHUMT00013003043 | 13 | 99018834 | 99025134 |
| A2 | OTTHUMT00013003040 | 13 | 99018996 | 99020990 |
| A2 | OTTHUMT00013003066 | 13 | 99058580 | 99409639 |
| A2 | OTTHUMT00013003062 | 13 | 99106806 | 99107314 |
| A2 | ENST000000310576 | 13 | 99106812 | 99107311 |
| A2 | ENST000000310558 | 13 | 99111961 | 99112335 |
| A2 | OTTHUMT00013003064 | 13 | 99291117 | 99294619 |
| A3 | ENSESTT000000026233 | 5 | 175066018 | 175091447 |
| A3 | ENST000000231683 | 5 | 175091160 | 175092239 |
| A3 | ENST000000274620 | 5 | 175204533 | 175288154 |
| A3 | ENST000000274615 | 5 | 175288871 | 175289290 |
| A3 | ENST000000334259 | 5 | 175289858 | 175290319 |
| A3 | ENST000000265097 | 5 | 175367459 | 175376203 |
| A3 | ENST000000333723 | 5 | 175414077 | 175415294 |
| A3 | ENST000000331171 | 5 | 175414077 | 175415309 |
| A3 | ENST000000330220 | 5 | 175414083 | 175415294 |
| A3 | ENST000000253490 | 5 | 175492772 | 175517499 |
| A3 | ENSESTT000000026234 | 5 | 175492798 | 175504815 |
| A3 | ENSESTT000000026235 | 5 | 175514024 | 175528803 |
| A3 | ENSESTT000000026236 | 5 | 175531948 | 175533047 |
| A3 | ENSESTT000000026237 | 5 | 175532319 | 175534252 |
| A3 | ENSESTT000000026238 | 5 | 175646358 | 175697849 |
| A3 | ENSESTT000000026239 | 5 | 175646582 | 175697880 |
| A3 | ENST000000303137 | 5 | 175671357 | 175753911 |
| A3 | ENSESTT000000026240 | 5 | 175702967 | 175753921 |
| A3 | ENST000000330147 | 5 | 175714285 | 175714659 |
| A3 | ENST000000332772 | 5 | 175721351 | 175753371 |
| A3 | ENST000000298569 | 5 | 175753991 | 175769668 |
| A3 | ENSESTT000000026241 | 5 | 175755867 | 175762014 |
| A3 | ENSESTT000000026242 | 5 | 175758565 | 175763625 |
| A3 | ENST000000310389 | 5 | 175773428 | 175781426 |
| A3 | ENSESTT000000026243 | 5 | 175773498 | 175776896 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|------------|---|-----------|-----------|
| A3 | ENST000000327101 | CGB7_HUMAN | 5 | 175791865 | 175796511 |
| A3 | ENSESTT00000026244 | | 5 | 175795923 | 175797685 |
| A3 | ENST00000274787 | NM_138820 | 5 | 175796696 | 175797683 |
| A3 | ENSESTT00000026253 | | 5 | 175800471 | 175824467 |
| A3 | ENST00000310407 | CLTB | 5 | 175800698 | 175824287 |
| A3 | ENST00000310418 | NM_001834 | 5 | 175800698 | 175824287 |
| A3 | ENSESTT00000026254 | | 5 | 175800716 | 175824462 |
| A3 | ENSESTT00000026246 | | 5 | 175856279 | 175904920 |
| A3 | ENSESTT00000026245 | | 5 | 175856279 | 175915561 |
| A3 | ENST00000261942 | NM_014613 | 5 | 175856301 | 175917997 |
| A3 | ENSESTT00000026247 | | 5 | 175856353 | 175861483 |
| A3 | ENSESTT00000026248 | | 5 | 175907924 | 175914952 |
| A3 | ENST00000274811 | RNF44 | 5 | 175934638 | 175940396 |
| A3 | ENSESTT00000026249 | | 5 | 175957282 | 175983069 |
| A3 | ENST00000261944 | NM_017675 | 5 | 175957315 | 176003596 |
| A3 | ENSESTT00000026250 | | 5 | 175986469 | 175992466 |
| A3 | ENSESTT00000026251 | | 5 | 175994575 | 176000693 |
| A3 | ENSESTT00000026252 | | 5 | 175994607 | 176000693 |
| A3 | ENST00000303991 | NM_052899 | 5 | 176003728 | 176018054 |
| A3 | ENST00000335532 | Q96PZ4 | 5 | 176004664 | 176007764 |
| A3 | ENST00000310112 | SNCB | 5 | 176028134 | 176037898 |
| A3 | ENST00000318682 | | 5 | 176051522 | 176053904 |
| A3 | ENSESTT00000025931 | | 5 | 176052504 | 176054064 |
| A3 | ENST00000310032 | Q96S98 | 5 | 176055391 | 176066978 |
| A3 | ENSESTT00000025934 | | 5 | 176055433 | 176064052 |
| A3 | ENSESTT00000025933 | | 5 | 176055433 | 176065755 |
| A3 | ENSESTT00000025932 | | 5 | 176055433 | 176065798 |
| A3 | ENST00000274797 | FBXO23 | 5 | 176055504 | 176060711 |
| A3 | ENSESTT00000025937 | | 5 | 176055510 | 176064052 |
| A3 | ENSESTT00000025936 | | 5 | 176055510 | 176065755 |
| A3 | ENSESTT00000025935 | | 5 | 176055510 | 176065798 |
| A3 | ENST00000298564 | Q96FV3 | 5 | 176055540 | 176064848 |
| A3 | ENSESTT00000025938 | | 5 | 176059752 | 176065560 |
| A3 | ENST00000318314 | Q9H7Q1 | 5 | 176062303 | 176065622 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|------------|-----------|-----------|
| A3 | ENST00000329542 | | | 176270544 | 176282324 |
| A3 | ENSESTT00000025945 | | | 176276066 | 176278347 |
| A3 | ENST00000261961 | | Q96GP4 | 176281909 | 176287810 |
| A3 | ENSESTT00000025946 | | HK3 | 176281927 | 176285515 |
| A3 | ENST00000292432 | | Q9BZR1 | 176288997 | 176304083 |
| A3 | ENST00000323774 | | NM_016290 | 176313206 | 176377614 |
| A3 | ENST00000274827 | | | 176313206 | 176390539 |
| A3 | ENSESTT00000025947 | | | 176323181 | 176337765 |
| A3 | ENST00000261948 | | NM_012279 | 176430663 | 176472523 |
| A3 | ENSESTT00000025948 | | | 176430665 | 176472752 |
| A3 | ENSESTT00000025949 | | | 176452251 | 176458816 |
| A3 | ENSESTT00000025951 | | | 176494862 | 176499035 |
| A3 | ENSESTT00000025950 | | | 176494862 | 176500300 |
| A3 | ENSESTT00000025952 | | | 176494947 | 176500300 |
| A3 | ENST00000292408 | | FGFR4 | 176497522 | 176505600 |
| A3 | ENST00000292410 | | NM_022963 | 176497527 | 176505600 |
| A3 | ENSESTT00000025956 | | | 176500568 | 176504578 |
| A3 | ENSESTT00000025957 | | | 176501099 | 176504578 |
| A3 | ENSESTT00000025958 | | | 176505115 | 176506050 |
| A3 | ENSESTT00000025959 | | | 176505286 | 176507234 |
| A3 | ENSESTT00000025960 | | | 176541049 | 176612169 |
| A3 | ENST00000298507 | | NSD1 | 176543028 | 176703698 |
| A3 | ENSESTT00000025961 | | | 176543093 | 176545330 |
| A3 | ENSESTT00000025963 | | | 176612187 | 176617686 |
| A3 | ENSESTT00000025966 | | | 176619693 | 176654715 |
| A3 | ENST00000312855 | | | 176673510 | 176674522 |
| A3 | ENSESTT00000025977 | | | 176699894 | 176702992 |
| A3 | ENSESTT00000025979 | | | 176709391 | 176710012 |
| A3 | ENST00000303270 | | RAB24 | 176709392 | 176711227 |
| A3 | ENSESTT00000025981 | | | 176711722 | 176714120 |
| A3 | ENSESTT00000025980 | | | 176711722 | 176714888 |
| A3 | ENST00000303204 | | PX19 HUMAN | 176711736 | 176714888 |
| A3 | ENST00000303182 | | Q96ME3 | 176715058 | 176719769 |
| A3 | ENST00000303165 | | MXD3 | 176715151 | 176719769 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-----------|---|-----------|-----------|
| A3 | ENST00000303127 | LMAN2 | 5 | 176739703 | 176759624 |
| A3 | ENSESTT00000025989 | | 5 | 176765891 | 176779165 |
| A3 | ENST00000303066 | RGS14 | 5 | 176765973 | 176780117 |
| A3 | ENSESTT00000025990 | | 5 | 176775288 | 176776866 |
| A3 | ENSESTT00000025991 | | 5 | 176779454 | 176780554 |
| A3 | ENSESTT00000025992 | | 5 | 176792400 | 176794461 |
| A3 | ENST00000324417 | SLC34A1 | 5 | 176792400 | 176806801 |
| A3 | ENSESTT00000025994 | | 5 | 176804912 | 176806144 |
| A3 | ENST00000319628 | | 5 | 176808126 | 176808530 |
| A3 | ENST00000253496 | F12 | 5 | 176810246 | 176817481 |
| A3 | ENSESTT00000025997 | | 5 | 176834655 | 176841379 |
| A3 | ENSESTT00000026002 | | 5 | 176834669 | 176842058 |
| A3 | ENSESTT00000026001 | | 5 | 176834669 | 176844638 |
| A3 | ENSESTT00000025999 | | 5 | 176834669 | 176849007 |
| A3 | ENSESTT00000026000 | | 5 | 176834669 | 176849007 |
| A3 | ENSESTT00000025998 | | 5 | 176834669 | 176850575 |
| A3 | ENST00000230673 | GPRK6 | 5 | 176834797 | 176849743 |
| A3 | ENSESTT00000026007 | | 5 | 176841092 | 176842058 |
| A3 | ENSESTT00000026006 | | 5 | 176841092 | 176844638 |
| A3 | ENSESTT00000026004 | | 5 | 176841092 | 176849007 |
| A3 | ENSESTT00000026005 | | 5 | 176841092 | 176849007 |
| A3 | ENSESTT00000026003 | | 5 | 176841092 | 176850575 |
| A3 | ENSESTT00000025996 | | 5 | 176842854 | 176844638 |
| A3 | ENSESTT00000025995 | | 5 | 176842854 | 176849007 |
| A3 | ENSESTT00000026008 | | 5 | 176842854 | 176850575 |
| A3 | ENST00000323249 | NM_030567 | 5 | 176854746 | 176864135 |
| A3 | ENSESTT00000026009 | | 5 | 176854894 | 176864139 |
| A3 | ENST00000309007 | DBN1 | 5 | 176864466 | 176881467 |
| A3 | ENST00000292385 | NM_080881 | 5 | 176865288 | 176880013 |
| A3 | ENST00000327525 | NM_005451 | 5 | 176891199 | 176905416 |
| A3 | ENST00000328562 | Q14250 | 5 | 176891449 | 176904318 |
| A3 | ENST00000330043 | Q9BXB9 | 5 | 176891449 | 176904318 |
| A3 | ENSESTT00000026018 | | 5 | 176891939 | 177031673 |
| A3 | ENSESTT00000026017 | | 5 | 176897221 | 177038162 |

| | | | | | | |
|----|--------------------|-----------|--|---|-----------|-----------|
| A3 | ENSESTT00000026016 | | | 5 | 176897716 | 177038203 |
| A3 | ENST00000330641 | Q96C91 | | 5 | 176898295 | 176904318 |
| A3 | ENST00000331981 | Q9BXB8 | | 5 | 176898906 | 176904318 |
| A3 | ENST000003312943 | Q9BQB3 | | 5 | 176909731 | 176916090 |
| A3 | ENST00000274826 | NM_024872 | | 5 | 176911807 | 176917676 |
| A3 | ENST00000330503 | DDX41 | | 5 | 176919402 | 176924661 |
| A3 | ENSESTT00000026010 | | | 5 | 176926890 | 176943796 |
| A3 | ENST00000329540 | NM_019057 | | 5 | 176926890 | 176961637 |
| A3 | ENSESTT00000026015 | | | 5 | 176945068 | 177094067 |
| A3 | ENSESTT00000026011 | | | 5 | 176999291 | 177002623 |
| A3 | ENSESTT00000026013 | | | 5 | 176999295 | 177133284 |
| A3 | ENSESTT00000026012 | | | 5 | 176999295 | 177136090 |
| A3 | ENST00000328179 | NM_017510 | | 5 | 176999300 | 177003200 |
| A3 | ENSESTT00000026014 | | | 5 | 176999308 | 177136081 |
| A3 | ENSESTT00000035756 | | | 5 | 177000737 | 177003218 |
| A3 | ENSESTT00000035757 | | | 5 | 177000783 | 177136346 |
| A3 | ENSESTT00000035758 | | | 5 | 177001245 | 177136718 |
| A3 | ENSESTT00000035760 | | | 5 | 177007252 | 177150698 |
| A3 | ENST00000333469 | NM_005451 | | 5 | 177023996 | 177038192 |
| A3 | ENSESTT00000035801 | | | 5 | 177024173 | 177038191 |
| A3 | ENST00000292374 | Q14250 | | 5 | 177024246 | 177037114 |
| A3 | ENST00000331561 | Q9BXB9 | | 5 | 177024246 | 177037114 |
| A3 | ENST00000331867 | Q96C91 | | 5 | 177031099 | 177037114 |
| A3 | ENSESTT00000035800 | | | 5 | 177031469 | 177038195 |
| A3 | ENSESTT00000035802 | | | 5 | 177031684 | 177037209 |
| A3 | ENST00000332347 | Q9BXB8 | | 5 | 177031702 | 177037114 |
| A3 | ENST00000331704 | | | 5 | 177042509 | 177048868 |
| A3 | ENST00000333364 | NM_024872 | | 5 | 177044585 | 177050454 |
| A3 | ENSESTT00000035798 | | | 5 | 177045241 | 177050448 |
| A3 | ENSESTT00000035797 | | | 5 | 177045345 | 177050987 |
| A3 | ENSESTT00000035799 | | | 5 | 177045385 | 177050435 |
| A3 | ENST00000330228 | DDX41 | | 5 | 177052393 | 177057440 |
| A3 | ENSESTT00000035796 | | | 5 | 177060391 | 177064902 |
| A3 | ENSESTT00000035761 | | | 5 | 177060392 | 177077299 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|------------|---|-----------|-----------|
| A3 | ENST00000274788 | NM_019057 | 5 | 177060394 | 177072665 |
| A3 | ENSESTT00000035795 | | 5 | 177065352 | 177077000 |
| A3 | ENSESTT00000035794 | | 5 | 177078577 | 177094163 |
| A3 | ENSESTT00000035759 | | 5 | 177132801 | 177136335 |
| A3 | ENST00000332598 | NM_017510 | 5 | 177132810 | 177136711 |
| A3 | ENST00000029410 | B4GALT7 | 5 | 177140813 | 177150931 |
| A3 | ENSESTT00000035762 | | 5 | 177151883 | 177159317 |
| A3 | ENST00000302857 | Q9HAI8 | 5 | 177159504 | 177159962 |
| A3 | ENST00000318185 | | 5 | 177166961 | 177173303 |
| A3 | ENST00000303108 | NM_173663 | 5 | 177263967 | 177321278 |
| A3 | ENST00000324610 | | 5 | 177269572 | 177285570 |
| A3 | ENSESTT00000035793 | | 5 | 177281869 | 177293899 |
| A3 | ENST00000329355 | Q8TE30 | 5 | 177314834 | 177318658 |
| A3 | ENST00000331417 | | 5 | 177377030 | 177378248 |
| A3 | ENST00000328082 | | 5 | 177377030 | 177378266 |
| A3 | ENST00000303154 | THOC3 | 5 | 177416128 | 177424868 |
| A3 | ENSESTT00000035763 | | 5 | 177416183 | 177424870 |
| A3 | ENST00000332215 | Q9H7L9 | 5 | 177511798 | 177512883 |
| A3 | ENST00000308304 | PROP1 | 5 | 177532838 | 177536844 |
| A3 | ENSESTT00000035764 | | 5 | 177582334 | 177589578 |
| A3 | ENSESTT00000035765 | | 5 | 177589720 | 177594471 |
| A3 | ENSESTT00000035766 | | 5 | 177593021 | 177594534 |
| A3 | ENST00000332649 | | 5 | 177596176 | 177596784 |
| A3 | ENST00000274605 | Y341_HUMAN | 5 | 177654157 | 177663002 |
| A3 | ENSESTT00000035767 | | 5 | 177660981 | 177662330 |
| A3 | ENST00000313376 | YE01_HUMAN | 5 | 177671613 | 177689151 |
| A3 | ENSESTT00000035769 | | 5 | 177671744 | 177688239 |
| A3 | ENSESTT00000035768 | | 5 | 177671744 | 177689170 |
| A3 | ENSESTT00000035770 | | 5 | 177684377 | 177689170 |
| A3 | ENSESTT00000035792 | | 5 | 177690065 | 177694571 |
| A3 | ENST00000274606 | NOLA2 | 5 | 177690069 | 177694497 |
| A3 | ENST00000327842 | NM_022471 | 5 | 177726321 | 177727901 |
| A3 | ENST00000261953 | HNRPAB | 5 | 177745109 | 177751782 |
| A3 | ENSESTT00000035781 | | 5 | 177745132 | 177746614 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|--|-----------|-----------|-----------|-----------|
| A3 | ENSESTT000000035779 | | | | 177745132 | 177751397 |
| A3 | ENSESTT000000035780 | | | | 177745132 | 177751397 |
| A3 | ENSESTT000000035777 | | | | 177745132 | 177751563 |
| A3 | ENSESTT000000035778 | | | | 177745132 | 177751563 |
| A3 | ENSESTT000000035771 | | | | 177745132 | 177751762 |
| A3 | ENSESTT000000035772 | | | | 177745132 | 177751762 |
| A3 | ENSESTT000000035773 | | | | 177745132 | 177751762 |
| A3 | ENSESTT000000035774 | | | | 177745132 | 177751762 |
| A3 | ENSESTT000000035775 | | | | 177745132 | 177751762 |
| A3 | ENSESTT000000035776 | | | | 177745132 | 177751762 |
| A3 | ENST00000307328 | | NM_004499 | | 177745440 | 177751225 |
| A3 | ENSESTT000000035782 | | | | 177746443 | 177751762 |
| A3 | ENSESTT000000035783 | | | | 177747326 | 177751762 |
| A3 | ENSESTT000000035790 | | | | 177749103 | 177770674 |
| A3 | ENSESTT000000035787 | | | | 177749103 | 177772179 |
| A3 | ENST00000308158 | | | | 177749186 | 177773152 |
| A3 | ENSESTT000000035791 | | | NM_032921 | 177749189 | 177763185 |
| A3 | ENSESTT000000035788 | | | | 177749189 | 177772179 |
| A3 | ENSESTT000000035789 | | | | 177749225 | 177772179 |
| A3 | ENSESTT000000035784 | | | | 177750732 | 177751762 |
| A3 | ENSESTT000000035786 | | | | 177779162 | 177788865 |
| A3 | ENSESTT000000035785 | | | | 177891469 | 177892852 |
| A3 | ENSESTT000000025813 | | | | 178143870 | 178154143 |
| A3 | ENST00000316308 | | | CLK4 | 178144219 | 178171217 |
| A3 | ENSESTT000000025820 | | | | 178153016 | 178159432 |
| A3 | ENSESTT000000025818 | | | | 178153016 | 178167610 |
| A3 | ENSESTT000000025819 | | | | 178157479 | 178160721 |
| A3 | ENSESTT000000025816 | | | | 178157835 | 178167668 |
| A3 | ENSESTT000000025814 | | | | 178158920 | 178171217 |
| A3 | ENSESTT000000025815 | | | | 178159118 | 178167738 |
| A3 | ENSESTT000000025817 | | | | 178160838 | 178167632 |
| A3 | ENST00000306591 | | ZNF354A | | 178252662 | 178269624 |
| A3 | ENSESTT000000025812 | | | | 178267657 | 178269949 |
| A3 | ENSESTT000000025811 | | | | 178307485 | 178309124 |

TABLE 3 (Continued)

| | | | | | | |
|----|--------------------|--|-----------|---|-----------|-----------|
| A3 | ENST000000331699 | | | | 178307800 | 178322947 |
| A3 | ENSESTT00000025799 | | | 5 | 178400555 | 178423360 |
| A3 | ENST000000322434 | | ZNF354B | 5 | 178400555 | 178425630 |
| A3 | ENSESTT00000025800 | | | 5 | 178401325 | 178406916 |
| A3 | ENST000000320451 | | ZNF271 | 5 | 178472120 | 178473301 |
| A3 | ENST000000320129 | | ZNF454 | 5 | 178481825 | 178507035 |
| A3 | ENSESTT00000025801 | | | 5 | 178483299 | 178505397 |
| A3 | ENST000000319065 | | Q8NHA9 | 5 | 178505697 | 178533033 |
| A3 | ENSESTT00000025802 | | | 5 | 178509517 | 178530722 |
| A3 | ENST000000231188 | | GRM6 | 5 | 178522259 | 178535546 |
| A3 | ENSESTT00000025810 | | | 5 | 178535880 | 178536808 |
| A3 | ENSESTT00000025803 | | | 5 | 178564407 | 178573529 |
| A3 | ENST000000315475 | | ZNF354C | 5 | 178601202 | 178621290 |
| A3 | ENSESTT00000025809 | | | 5 | 178623365 | 178624025 |
| A3 | ENSESTT00000025808 | | | 5 | 178653824 | 178654193 |
| A3 | ENSESTT00000025806 | | | 5 | 178654498 | 178665387 |
| A3 | ENSESTT00000025807 | | | 5 | 178661813 | 178663369 |
| A3 | ENST000000251582 | | ADAMTS2 | 5 | 178662264 | 178699481 |
| A3 | ENST000000274609 | | ADAMTS2 | 5 | 178691731 | 178885702 |
| A3 | ENSESTT00000025805 | | | 5 | 178692740 | 178699439 |
| A3 | ENSESTT00000025804 | | | 5 | 178917905 | 178919135 |
| A3 | ENSESTT00000035851 | | | 5 | 179043326 | 179055582 |
| A3 | ENSESTT00000035852 | | | 5 | 179090766 | 179129747 |
| A3 | ENSESTT00000035853 | | | 5 | 179099890 | 179129747 |
| A3 | ENSESTT00000035854 | | | 5 | 179099924 | 179129747 |
| A3 | ENST000000319449 | | | 5 | 179100164 | 179146212 |
| A3 | ENSESTT00000035855 | | | 5 | 179100278 | 179107690 |
| A3 | ENSESTT00000035856 | | | 5 | 179107577 | 179131807 |
| A3 | ENSESTT00000035857 | | | 5 | 179133252 | 179146705 |
| A3 | ENST000000319571 | | NM_030970 | 5 | 179140510 | 179140581 |
| A3 | ENST000000258707 | | | 5 | 179148300 | 179148368 |
| A3 | ENSESTT00000035915 | | | 5 | 179150871 | 179154755 |
| A3 | ENSESTT00000035916 | | | 5 | 179150871 | 179154755 |
| A3 | ENSESTT00000035908 | | | 5 | 179150871 | 179160390 |

TABLE 3 (Continued)

TABLE 3 (Continued)

| | | | | | | |
|----|-----------------------|-----------|--|---|-----------|-----------|
| A3 | ENSESTT00000035902 | | | 5 | 179334633 | 179338133 |
| A3 | ENSESTT00000035895 | | | 5 | 179334633 | 179343595 |
| A3 | ENSESTT00000035903 | | | 5 | 179334876 | 179338133 |
| A3 | ENSESTT00000035904 | | | 5 | 179334883 | 179338133 |
| A3 | ENSESTT00000035900 | | | 5 | 179334883 | 179342992 |
| A3 | ENSESTT00000035896 | | | 5 | 179334883 | 179343595 |
| A3 | ENSESTT00000035897 | | | 5 | 179334883 | 179343595 |
| A3 | ENSESTT00000035905 | | | 5 | 179335007 | 179338133 |
| A3 | ENSESTT00000035898 | | | 5 | 179335007 | 179343595 |
| A3 | ENSESTT00000035899 | | | 5 | 179337988 | 179343595 |
| A3 | ENSESTT00000035871 | | | 5 | 179357567 | 179374487 |
| A3 | ENST00000292588 | SQSTM1 | | 5 | 179357599 | 179373255 |
| A3 | ENSESTT00000035894 | | | 5 | 179370411 | 179373916 |
| A3 | ENST00000292586 | NM_016175 | | 5 | 179373936 | 179378682 |
| A3 | ENSESTT00000035893 | | | 5 | 179373938 | 179395443 |
| A3 | ENST00000328625 | NM_016175 | | 5 | 179374053 | 179395458 |
| A3 | ENST00000261956075163 | | | 5 | 179398735 | 179444516 |
| A3 | ENST00000312107 | NM_015043 | | 5 | 179400110 | 179407115 |
| A3 | ENSESTT00000035892 | | | 5 | 179400203 | 179402065 |
| A3 | ENSESTT00000035891 | | | 5 | 179400212 | 179402552 |
| A3 | ENSESTT00000035890 | | | 5 | 179400359 | 179404512 |
| A3 | ENSESTT00000035889 | | | 5 | 179409551 | 179415194 |
| A3 | ENSESTT00000035887 | | | 5 | 179415747 | 179444521 |
| A3 | ENSESTT00000035888 | | | 5 | 179416330 | 179444521 |
| A3 | ENSESTT00000035886 | | | 5 | 179492143 | 179507146 |
| A3 | ENSESTT00000035885 | | | 5 | 179492144 | 179514948 |
| A3 | ENSESTT00000035884 | | | 5 | 179492144 | 179549976 |
| A3 | ENSESTT00000035881 | | | 5 | 179492144 | 179608429 |
| A3 | ENST00000261947 | RNF130 | | 5 | 179492168 | 179608763 |
| A3 | ENSESTT00000035882 | | | 5 | 179514859 | 179608429 |
| A3 | ENSESTT00000035883 | | | 5 | 179516790 | 179608429 |
| A3 | ENST00000332144 | | | 5 | 179622379 | 179623665 |
| A3 | ENST00000274820 | NM_175062 | | 5 | 179638729 | 179745830 |
| A3 | ENST00000316131 | | | 5 | 179763049 | 179763664 |

TABLE 3 (Continued)

| | | | | | | |
|----|--------------------|--|-----------|---|-----------|-----------|
| A3 | ENSESTT00000035880 | | | | 179772812 | 179779418 |
| A3 | ENSESTT00000035877 | | | | 179772812 | 179817172 |
| A3 | ENST00000057533 | | NM_139069 | 5 | 179773046 | 179817223 |
| A3 | ENST000000316123 | | MAPK9 | 5 | 179773046 | 179817223 |
| A3 | ENSESTT00000035879 | | | 5 | 179783749 | 179798444 |
| A3 | ENSESTT00000035878 | | | 5 | 179790169 | 179801503 |
| A3 | ENST000000328081 | | | 5 | 179794621 | 179796637 |
| A3 | ENSESTT00000035876 | | | 5 | 179816486 | 179828537 |
| A3 | ENST000000253778 | | GFPT2 | 5 | 179837361 | 179875263 |
| A3 | ENSESTT00000035874 | | | 5 | 179837891 | 179868310 |
| A3 | ENSESTT00000035875 | | | 5 | 179861517 | 179867483 |
| A3 | ENSESTT00000035873 | | | 5 | 179868152 | 179889985 |
| A3 | ENSESTT00000035872 | | | 5 | 179872531 | 179889987 |
| A3 | ENST000000261951 | | NM_015455 | 5 | 180065924 | 180110862 |
| A3 | ENSESTT00000035640 | | | 5 | 180065968 | 180087268 |
| A3 | ENSESTT00000035639 | | | 5 | 180065968 | 180101184 |
| A3 | ENST000000332929 | | Q8TAJ0 | 5 | 180112873 | 180113151 |
| A3 | ENSESTT00000035680 | | | 5 | 180126767 | 180128147 |
| A3 | ENST000000292641 | | SCGB3A1 | 5 | 180126768 | 180128145 |
| A3 | ENSESTT00000035679 | | | 5 | 180139821 | 180148082 |
| A3 | ENST000000261937 | | FLT4 | 5 | 180145626 | 180186207 |
| A3 | ENSESTT00000035678 | | | 5 | 180162667 | 180166645 |
| A3 | ENSESTT00000035677 | | | 5 | 180166890 | 180186286 |
| A3 | ENST000000315712 | | Q8NHB0 | 5 | 180229572 | 180230422 |
| A3 | ENST000000307832 | | Q8NGV0 | 5 | 180275785 | 180276720 |
| A3 | ENSESTT00000035676 | | | 5 | 180327203 | 180328628 |
| A3 | ENSESTT00000035675 | | | 5 | 180327203 | 180328768 |
| A3 | ENST000000333055 | | MGAT1 | 5 | 180327210 | 180352203 |
| A3 | ENSESTT00000035663 | | | 5 | 180327543 | 180339485 |
| A3 | ENST000000307826 | | Q8NBL8 | 5 | 180328296 | 180329633 |
| A3 | ENSESTT00000035662 | | | 5 | 180329112 | 180339503 |
| A3 | ENSESTT00000035659 | | | 5 | 180329155 | 180345445 |
| A3 | ENSESTT00000035661 | | | 5 | 180329332 | 180340541 |
| A3 | ENSESTT00000035665 | | | 5 | 180332068 | 180352229 |

TABLE 3 (Continued)

| | | | | | | |
|----|--------------------|--|--|-----------|-----------|-----------|
| A3 | ENSESTT00000035664 | | | | 180332092 | 180339429 |
| A3 | ENSESTT00000035660 | | | | 180332309 | 180345357 |
| A3 | ENSESTT00000035658 | | | | 180344545 | 180346738 |
| A3 | ENSESTT00000035666 | | | | 180345508 | 180352200 |
| A3 | ENSESTT00000035657 | | | | 180345511 | 180346792 |
| A3 | ENSESTT00000035673 | | | | 180384273 | 180397228 |
| A3 | ENSESTT00000035672 | | | | 180384335 | 180397947 |
| A3 | ENST00000330037 | | | NM_152283 | 180385559 | 180387766 |
| A3 | ENST00000302108 | | | | 180386417 | 180388132 |
| A3 | ENSESTT00000035674 | | | | 180387577 | 180397213 |
| A3 | ENST00000231229 | | | NM_024850 | 180435821 | 180487566 |
| A3 | ENSESTT00000035641 | | | | 180435955 | 180448194 |
| A3 | ENSESTT00000035642 | | | | 180448211 | 180487568 |
| A3 | ENST00000301996 | | | BTNL3 | 180525529 | 180543025 |
| A3 | ENST00000298708 | | | NM_152547 | 180582152 | 180590225 |
| A3 | ENSESTT00000035643 | | | | 180589782 | 180591964 |
| A3 | ENST00000327705 | | | Q8N324 | 180590141 | 180598180 |
| A3 | ENSESTT00000035644 | | | | 180592305 | 180595974 |
| A3 | ENST00000328095 | | | | 180635802 | 180637319 |
| A3 | ENST00000328767 | | | | 180650805 | 180651920 |
| A3 | ENST00000329365 | | | | 180661176 | 180661966 |
| A3 | ENST00000328275 | | | Q8NGV1 | 180691605 | 180692552 |
| A3 | ENSESTT00000035645 | | | | 180728586 | 180731091 |
| A3 | ENST00000274773 | | | Q96J89 | 180731275 | 180736815 |
| A3 | ENSESTT00000035646 | | | | 180734864 | 180739766 |
| A3 | ENSESTT00000035671 | | | | 180739916 | 180741785 |
| A3 | ENST00000334421 | | | TRIM7 | 180740159 | 180741772 |
| A3 | ENST00000312487 | | | Q96Q10 | 180760899 | 180772041 |
| A3 | ENST00000315073 | | | TRIM41 | 180760917 | 180772467 |
| A3 | ENSESTT00000035647 | | | | 180769651 | 180772470 |
| A3 | ENSESTT00000035648 | | | | 180770071 | 180772470 |
| A3 | ENST00000274821 | | | GNB2L1 | 180773587 | 180780586 |
| A3 | ENSESTT00000035670 | | | | 180773591 | 180776245 |
| A3 | ENSESTT00000035649 | | | | 180783187 | 180783850 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|--|---------------|----|-----------|-----------|
| A3 | ENSESTT000000035669 | | | | 180791085 | 180796857 |
| A3 | ENST00000327725 | | NM_022907 | 5 | 180792443 | 180792880 |
| A3 | ENSESTT00000035668 | | | 5 | 180793051 | 180796920 |
| A3 | ENSESTT00000035667 | | | 5 | 180793672 | 180796987 |
| A3 | ENST00000327767 | | TRIM52 | 5 | 180794077 | 180797476 |
| A3 | ENSESTT00000035652 | | | 5 | 180797875 | 180800890 |
| A3 | ENSESTT00000035651 | | | 5 | 180797875 | 180800918 |
| A3 | ENSESTT00000035650 | | | 5 | 180797875 | 180800920 |
| A3 | ENSESTT00000035653 | | | 5 | 180854088 | 180864732 |
| A3 | ENSESTT00000035654 | | | 5 | 180866068 | 180886905 |
| A3 | ENST00000333864 | | O4F3_HUMAN | 5 | 180903950 | 180904888 |
| A3 | ENSESTT00000035655 | | | 5 | 180988607 | 180991662 |
| A3 | ENSESTT00000035656 | | | 5 | 180990904 | 180991624 |
| A3 | ENST00000332522 | | | 5 | 181008629 | 181009085 |
| A4 | OTTHUMT00013000706 | | FLT1-001 | 13 | 26672489 | 26867232 |
| A4 | ENST00000282397 | | FLT1 | 13 | 26675304 | 26867254 |
| A4 | ENSESTT00000037419 | | | 13 | 26740528 | 26762136 |
| A4 | ENSESTT00000037420 | | | 13 | 26749569 | 26762136 |
| A4 | ENSESTT00000037421 | | | 13 | 26756741 | 26762136 |
| A4 | ENSESTT00000037417 | | | 13 | 26769173 | 26810483 |
| A4 | ENSESTT00000037415 | | | 13 | 26769173 | 26839090 |
| A4 | ENSESTT00000037418 | | | 13 | 26772654 | 26810483 |
| A4 | ENSESTT00000037416 | | | 13 | 26772654 | 26839090 |
| A4 | ENSESTT00000037414 | | | 13 | 26839038 | 26867241 |
| A4 | OTTHUMT00013000708 | | bA57H24.1-001 | 13 | 26970970 | 26972189 |
| A4 | ENST00000255315 | | C13orf12 | 13 | 27031241 | 27051059 |
| A4 | OTTHUMT00013000710 | | bA97E23.1-001 | 13 | 27031241 | 27051062 |
| A4 | OTTHUMT00013000711 | | bA97E23.1-002 | 13 | 27031241 | 27051062 |
| A4 | ENSESTT00000037329 | | | 13 | 27031251 | 27051047 |
| A4 | ENSESTT00000037330 | | | 13 | 27031270 | 27034993 |
| A4 | ENSESTT00000037328 | | | 13 | 27032876 | 27050475 |
| A4 | ENSESTT00000037342 | | | 13 | 27044487 | 27050337 |
| A4 | OTTHUMT00013000715 | | bA97E23.2-002 | 13 | 27072201 | 27076694 |
| A4 | ENST00000266943 | | NM_181785 | 13 | 27072854 | 27090734 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|----|----------|----------|
| A4 | OTTHUMT00013000714 | | | | |
| A4 | ENSESTT00000037341 | bA97E23.2-001 | 13 | 27072854 | 27091107 |
| A4 | ENSESTT00000037340 | | 13 | 27073385 | 27082982 |
| A4 | ENSESTT00000037339 | | 13 | 27073407 | 27085276 |
| A4 | OTTHUMT00013000718 | | 13 | 27085474 | 27091111 |
| A4 | ENSESTT00000037338 | bA97E23.3-001 | 13 | 27094523 | 27096158 |
| A4 | OTTHUMT00013000720 | | 13 | 27094840 | 27095270 |
| A4 | ENST00000255289 | bA161P17.1-001 | 13 | 27150695 | 27151074 |
| A4 | OTTHUMT00013000739 | Q8N5E2 | 13 | 27397451 | 27875542 |
| A4 | OTTHUMT00013000726 | bA274A8.1-002 | 13 | 27397451 | 27875892 |
| A4 | OTTHUMT00013000725 | bA351N4.3-003 | 13 | 27611516 | 27622691 |
| A4 | OTTHUMT00013000724 | bA351N4.3-002 | 13 | 27611760 | 27622691 |
| A4 | ENSESTT00000037331 | bA351N4.3-001 | 13 | 27611924 | 27622691 |
| A4 | OTTHUMT00013000722 | | 13 | 27653849 | 27673230 |
| A4 | OTTHUMT00013000738 | bA351N4.2-001 | 13 | 27678843 | 27680052 |
| A4 | ENSESTT00000037332 | bA274A8.1-001 | 13 | 27800764 | 27875873 |
| A4 | ENST00000323380 | | 13 | 27800922 | 27869445 |
| A4 | OTTHUMT00013000730 | Q8N642 | 13 | 27848687 | 27859887 |
| A4 | ENSESTT00000037337 | bA274A8.2-001 | 13 | 27849033 | 27859887 |
| A4 | OTTHUMT00013000732 | | 13 | 27849033 | 27859887 |
| A4 | ENST00000266949 | SLC7A1-001 | 13 | 27881547 | 27967721 |
| A4 | OTTHUMT00013000733 | SLC7A1 | 13 | 27886617 | 27908325 |
| A4 | ENSESTT00000037336 | SLC7A1-002 | 13 | 27889004 | 27891647 |
| A4 | ENSESTT00000037335 | | 13 | 27889008 | 27894543 |
| A4 | ENSESTT00000037333 | | 13 | 27894554 | 27902860 |
| A4 | ENSESTT00000037334 | | 13 | 27907953 | 27967721 |
| A4 | OTTHUMT00013000734 | | 13 | 27907955 | 27958929 |
| A4 | ENST00000330321 | SLC7A1-003 | 13 | 27907961 | 27958929 |
| A4 | ENST00000255303 | Q8NI69 | 13 | 27964863 | 27965033 |
| A4 | ENST00000310635 | Q8TE30 | 13 | 28014062 | 28017889 |
| A4 | OTTHUMT00013000746 | Q9P1E1 | 13 | 28017953 | 28018969 |
| A4 | ENST00000241470 | UBL3-001 | 13 | 28136508 | 28222821 |
| A4 | ENSESTT00000037443 | | 13 | 28136546 | 28222715 |
| A4 | ENSESTT00000037445 | | 13 | 28138914 | 28222162 |
| A4 | | | 13 | 28139131 | 28144336 |

TABLE 3 (Continued)

| | | | | | | |
|----|--------------------|--|----------------|----|----------|----------|
| A4 | ENSESTT00000037444 | | | 13 | 28139753 | 28222162 |
| A4 | OTTHUMT00013000744 | | bA90M5.2-001 | 13 | 28238096 | 28238306 |
| A4 | OTTHUMT00013000748 | | bA90M5.4-001 | 13 | 28290784 | 28298788 |
| A4 | ENSESTT00000037431 | | | 13 | 28310040 | 28322630 |
| A4 | ENST00000241471 | | Q9H523 | 13 | 28310043 | 28322495 |
| A4 | OTTHUMT00013000742 | | bA90M5.1-001 | 13 | 28310043 | 28322628 |
| A4 | OTTHUMT00013000750 | | bA629E24.1-001 | 13 | 28479753 | 28481012 |
| A4 | OTTHUMT00013000752 | | bA490N5.1-001 | 13 | 28526203 | 28526723 |
| A4 | OTTHUMT00013000754 | | bA374F3.1-001 | 13 | 28580177 | 28679585 |
| A4 | ENSESTT00000037442 | | | 13 | 28580405 | 28603509 |
| A4 | ENST00000261628 | | NM_032116 | 13 | 28580617 | 28679163 |
| A4 | ENSESTT00000037439 | | | 13 | 28627583 | 28655933 |
| A4 | ENSESTT00000037440 | | | 13 | 28627583 | 28679620 |
| A4 | ENSESTT00000037438 | | | 13 | 28627618 | 28679146 |
| A4 | ENSESTT00000037441 | | | 13 | 28627625 | 28679181 |
| A4 | OTTHUMT00013000756 | | bA374F3.2-001 | 13 | 28668272 | 28668860 |
| A4 | ENST00000319015 | | | 13 | 28668284 | 28668872 |
| A4 | OTTHUMT00013000758 | | bA374F3.3-001 | 13 | 28688497 | 28692033 |
| A4 | OTTHUMT00013000761 | | bA374F3.4-002 | 13 | 28713496 | 28736232 |
| A4 | ENSESTT00000037437 | | | 13 | 28713496 | 28736232 |
| A4 | OTTHUMT00013000760 | | bA374F3.4-001 | 13 | 28714620 | 28737898 |
| A4 | OTTHUMT00013000763 | | bA374F3.4-004 | 13 | 28729879 | 28736287 |
| A4 | OTTHUMT00013000762 | | bA374F3.4-003 | 13 | 28729879 | 28749282 |
| A4 | OTTHUMT00013000764 | | bA374F3.4-005 | 13 | 28735317 | 28745169 |
| A4 | OTTHUMT00013000765 | | bA374F3.4-006 | 13 | 28746140 | 28749101 |
| A4 | OTTHUMT00013000772 | | bA223E19.1-001 | 13 | 28800091 | 28800795 |
| A4 | ENST00000302464 | | UBE2L3 | 13 | 28800128 | 28800592 |
| A4 | OTTHUMT00013000792 | | bA550P23.2-001 | 13 | 28818545 | 28820625 |
| A4 | OTTHUMT00013000777 | | HMGB1-004 | 13 | 28831990 | 28838109 |
| A4 | ENST00000255320 | | HMGB1 | 13 | 28831997 | 28838013 |
| A4 | ENSESTT00000037436 | | | 13 | 28833364 | 28838063 |
| A4 | OTTHUMT00013000774 | | HMGB1-001 | 13 | 28833566 | 28836447 |
| A4 | OTTHUMT00013000775 | | HMGB1-002 | 13 | 28833621 | 28836447 |
| A4 | OTTHUMT00013000776 | | HMGB1-003 | 13 | 28833633 | 28838075 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|--|----------------|-------------------|
| A4 | ENSESTT00000037435 | | | | |
| A4 | OTTHUMT00013000781 | | | HMGB1-008 | 28834423 28989492 |
| A4 | OTTHUMT00013000782 | | | HMGB1-009 | 28834483 28835401 |
| A4 | ENSESTT00000037434 | | | | 28834675 28836526 |
| A4 | OTTHUMT00013000779 | | | HMGB1-006 | 28834713 28989872 |
| A4 | OTTHUMT00013000778 | | | HMGB1-005 | 28834750 28836793 |
| A4 | OTTHUMT00013000780 | | | HMGB1-007 | 28835348 28838651 |
| A4 | OTTHUMT00013000794 | | | bA550P23.3-001 | 28835448 28838051 |
| A4 | OTTHUMT00013000796 | | | bA550P23.4-001 | 28911734 28915598 |
| A4 | OTTHUMT00013000798 | | | bA550P23.5-001 | 28913780 28915034 |
| A4 | OTTHUMT00013000801 | | | bA121O19.1-002 | 28925807 28926830 |
| A4 | ENST00000255304 | | | NM_005800 | 28989830 29003611 |
| A4 | OTTHUMT00013000800 | | | bA121O19.1-001 | 28989920 29031493 |
| A4 | ENSESTT00000037432 | | | | 28989920 29031686 |
| A4 | ENSESTT00000037433 | | | | 28990053 29003351 |
| A4 | ENSESTT00000042385 | | | | 28990087 29003261 |
| A4 | OTTHUMT00013000806 | | | | 29014843 29031687 |
| A4 | ENST00000255317 | | | ALOX5AP-001 | 29107645 29136556 |
| A4 | OTTHUMT00013000807 | | | ALOX5AP | 29107669 29136562 |
| A4 | OTTHUMT00013000804 | | | ALOX5AP-002 | 29114473 29116533 |
| A4 | ENSESTT00000042392 | | | bA469L23.2-001 | 29175343 29182782 |
| A4 | ENSESTT00000042393 | | | | 29175343 29183024 |
| A4 | OTTHUMT00013000810 | | | bA252M21.1-001 | 29202772 29255532 |
| A4 | ENSESTT00000042394 | | | | 29254688 29255532 |
| A4 | ENST00000218987 | | | NM_032849 | 29254696 29255532 |
| A4 | OTTHUMT00013000812 | | | bA252M21.2-001 | 29278328 29297708 |
| A4 | OTTHUMT00013000813 | | | bA252M21.2-002 | 29278328 29297709 |
| A4 | ENSESTT00000042395 | | | | 29278843 29296586 |
| A4 | ENSESTT00000042471 | | | | 29289536 29297968 |
| A4 | OTTHUMT00013000816 | | | bA252M21.3-001 | 29302805 29303625 |
| A4 | OTTHUMT00013000818 | | | bA252M21.4-001 | 29302814 29303619 |
| A4 | OTTHUMT00013000819 | | | bA252M21.4-002 | 29303638 29304723 |
| A4 | OTTHUMT00013000823 | | | bA252M21.5-002 | 29303766 29304337 |
| A4 | OTTHUMT00013000822 | | | bA252M21.5-001 | 29304840 29305327 |
| | | | | | 29304840 29347639 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|----|----------|----------|
| A4 | ENST000000320096 | NM_152325 | 13 | 29304853 | 29347044 |
| A4 | ENSESTT00000042396 | | 13 | 29329009 | 29347274 |
| A4 | OTTHUMT00013000826 | bA252M21.6-001 | 13 | 29345426 | 29349760 |
| A4 | OTTHUMT00013000828 | bA252M21.7-001 | 13 | 29367299 | 29368275 |
| A4 | OTTHUMT00013000830 | bA173P16.1-001 | 13 | 29471238 | 29487836 |
| A4 | ENSESTT00000042440 | | 13 | 29508750 | 29511044 |
| A4 | ENSESTT00000042437 | | 13 | 29508750 | 29511319 |
| A4 | ENSESTT00000042416 | | 13 | 29508750 | 29520230 |
| A4 | ENSESTT00000042418 | | 13 | 29508750 | 29520230 |
| A4 | ENSESTT00000042420 | | 13 | 29508750 | 29520230 |
| A4 | ENSESTT00000042421 | | 13 | 29508750 | 29520230 |
| A4 | ENSESTT00000042403 | | 13 | 29508750 | 29520554 |
| A4 | ENSESTT00000042405 | | 13 | 29508750 | 29520554 |
| A4 | ENSESTT00000042406 | | 13 | 29508750 | 29520554 |
| A4 | ENSESTT00000042407 | | 13 | 29508750 | 29520554 |
| A4 | ENSESTT00000042438 | | 13 | 29508750 | 29520623 |
| A4 | ENSESTT00000042443 | | 13 | 29508750 | 29520623 |
| A4 | ENSESTT00000042444 | | 13 | 29508750 | 29520623 |
| A4 | ENSESTT00000042445 | | 13 | 29508750 | 29520623 |
| A4 | ENSESTT00000042402 | | 13 | 29508750 | 29523880 |
| A4 | ENSESTT00000042404 | | 13 | 29508750 | 29523880 |
| A4 | ENSESTT00000042413 | | 13 | 29508750 | 29523880 |
| A4 | ENSESTT00000042414 | | 13 | 29508750 | 29523880 |
| A4 | ENSESTT00000042442 | | 13 | 29508762 | 29509663 |
| A4 | OTTHUMT00013000835 | bA173P16.2-004 | 13 | 29508762 | 29510705 |
| A4 | OTTHUMT00013000832 | bA173P16.2-001 | 13 | 29508765 | 29534064 |
| A4 | OTTHUMT00013000833 | bA173P16.2-002 | 13 | 29508765 | 29534064 |
| A4 | OTTHUMT00013000834 | bA173P16.2-003 | 13 | 29508765 | 29534064 |
| A4 | ENSESTT00000042441 | | 13 | 29509002 | 29511044 |
| A4 | ENSESTT00000042422 | | 13 | 29509002 | 29520230 |
| A4 | ENSESTT00000042423 | | 13 | 29509002 | 29520230 |
| A4 | ENSESTT00000042408 | | 13 | 29509002 | 29520554 |
| A4 | ENSESTT00000042409 | | 13 | 29509002 | 29520554 |
| A4 | ENSESTT00000042446 | | 13 | 29509002 | 29520623 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|--|--|----------------|----------|----------|
| A4 | ENSESTT000000042447 | | | | 29509002 | 29520623 |
| A4 | ENSESTT000000042415 | | | | 29509002 | 29523880 |
| A4 | ENSESTT000000042417 | | | | 29509002 | 29523880 |
| A4 | ENST000000239887 | | | HSPH1 | 29509455 | 29533719 |
| A4 | ENST000000320027 | | | HSPH1 | 29509455 | 29533719 |
| A4 | ENSESTT000000042439 | | | | 29509641 | 29511319 |
| A4 | ENSESTT000000042424 | | | | 29510418 | 29520230 |
| A4 | ENSESTT000000042410 | | | | 29510418 | 29520554 |
| A4 | ENSESTT000000042448 | | | | 29510418 | 29520623 |
| A4 | ENSESTT000000042419 | | | | 29510418 | 29523880 |
| A4 | ENSESTT000000042425 | | | | 29510574 | 29520230 |
| A4 | ENSESTT000000042432 | | | | 29510574 | 29522321 |
| A4 | ENSESTT000000042428 | | | | 29510574 | 29523880 |
| A4 | OTTHUMT00013000836 | | | | 29510676 | 29511319 |
| A4 | ENSESTT000000042426 | | | bA173P16.2-005 | 29510913 | 29520230 |
| A4 | ENSESTT000000042427 | | | | 29510913 | 29520230 |
| A4 | ENSESTT000000042411 | | | | 29510913 | 29520554 |
| A4 | ENSESTT000000042449 | | | | 29510913 | 29520623 |
| A4 | ENSESTT000000042433 | | | | 29510913 | 29522321 |
| A4 | ENSESTT000000042429 | | | | 29510913 | 29523880 |
| A4 | ENSESTT000000042430 | | | | 29510913 | 29523880 |
| A4 | ENSESTT000000042436 | | | | 29515928 | 29520230 |
| A4 | ENSESTT000000042412 | | | | 29515928 | 29520554 |
| A4 | ENSESTT000000042401 | | | | 29515928 | 29520623 |
| A4 | ENSESTT000000042434 | | | | 29515928 | 29522321 |
| A4 | ENSESTT000000042431 | | | | 29515928 | 29523880 |
| A4 | ENSESTT000000042435 | | | | 29520095 | 29522321 |
| A4 | ENSESTT000000042400 | | | | 29527641 | 29534068 |
| A4 | ENSESTT000000042399 | | | | 29527667 | 29534489 |
| A4 | ENSESTT000000042397 | | | | 29572112 | 29633161 |
| A4 | OTTHUMT00013000842 | | | bA367C11.1-001 | 29572112 | 29704409 |
| A4 | ENSESTT000000042398 | | | | 29632535 | 29656892 |
| A4 | OTTHUMT00013000843 | | | bA367C11.1-002 | 29632544 | 29656892 |
| A4 | ENST000000310319 | | | Q9P1E1 | 29675357 | 29676373 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-------------------|----|----------|----------|
| A4 | OTTHUMT00013000846 | bA367C11.2-001 | 13 | 29683426 | 29685058 |
| A4 | ENST00000298386 | LGR8_HUMAN | 13 | 30111674 | 30175009 |
| A4 | OTTHUMT00013000848 | bA432E15.1-001 | 13 | 30111679 | 30175009 |
| A4 | ENSESTT00000037457 | | 13 | 30218905 | 30325581 |
| A4 | ENSESTT00000037458 | | 13 | 30218972 | 30324856 |
| A4 | OTTHUMT00013000850 | Em:AC002525.1-001 | 13 | 30324632 | 30325609 |
| A4 | ENST00000306722 | | 13 | 30324717 | 30325498 |
| A4 | OTTHUMT00013000852 | bA207N4.2-001 | 13 | 30397451 | 30403776 |
| A4 | OTTHUMT00013000854 | bA37E23.1-001 | 13 | 30403437 | 30668794 |
| A4 | ENSESTT00000037459 | | 13 | 30403557 | 30451064 |
| A4 | OTTHUMT00013000855 | bA37E23.1-002 | 13 | 30403692 | 30410757 |
| A4 | ENSESTT00000037460 | | 13 | 30403692 | 30410757 |
| A4 | ENST00000318671 | Q9H551 | 13 | 30403933 | 30474153 |
| A4 | OTTHUMT00013000856 | bA37E23.1-003 | 13 | 30433001 | 30489607 |
| A4 | ENST00000267067 | Q99993 | 13 | 30457981 | 30529546 |
| A4 | ENSESTT00000037461 | | 13 | 30533334 | 30543341 |
| A4 | ENSESTT00000037462 | | 13 | 30545609 | 30551036 |
| A4 | ENST00000261575 | NM_023037 | 13 | 30574067 | 30667597 |
| A4 | ENSESTT00000037446 | | 13 | 30603413 | 30668738 |
| A4 | ENSESTT00000037447 | | 13 | 30606797 | 30609886 |
| A4 | OTTHUMT00013000858 | bA37E23.1-005 | 13 | 30621676 | 30650976 |
| A4 | ENSESTT00000037448 | | 13 | 30621802 | 30637786 |
| A4 | ENSESTT00000037449 | | 13 | 30626285 | 30634614 |
| A4 | ENSESTT00000037450 | | 13 | 30626290 | 30637786 |
| A4 | ENSESTT00000037453 | | 13 | 30626512 | 30650976 |
| A4 | ENSESTT00000037454 | | 13 | 30626512 | 30650976 |
| A4 | ENSESTT00000037452 | | 13 | 30626512 | 30661841 |
| A4 | ENSESTT00000037451 | | 13 | 30626512 | 30661882 |
| A4 | OTTHUMT00013000859 | bA37E23.1-006 | 13 | 30634526 | 30661776 |
| A4 | ENSESTT00000037455 | | 13 | 30659981 | 30668767 |
| A4 | OTTHUMT00013000857 | bA37E23.1-004 | 13 | 30659988 | 30667640 |
| A4 | ENSESTT00000037456 | | 13 | 30666374 | 30668767 |
| A4 | OTTHUMT00013000870 | bA37E23.5-001 | 13 | 30670291 | 30670849 |
| A4 | OTTHUMT00013000868 | bA37E23.4-001 | 13 | 30680855 | 30683420 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|---------------|----|----------|----------|
| A4 | ENSESTT00000037463 | | 13 | 30687607 | 30698292 |
| A4 | OTTHUMT00013003674 | BRCA2-001 | 13 | 30687617 | 30771806 |
| A4 | ENSESTT00000037464 | | 13 | 30687640 | 30698728 |
| A4 | ENST00000267071 | BRCA2 | 13 | 30688598 | 30770907 |
| A4 | ENSESTT00000037465 | | 13 | 30735410 | 30752226 |
| A4 | ENSESTT00000037466 | | 13 | 30748806 | 30752226 |
| A4 | OTTHUMT00013003675 | BRCA2-002 | 13 | 30751977 | 30770409 |
| A4 | OTTHUMT00013000866 | bA37E23.3-001 | 13 | 30756797 | 30758245 |
| A4 | OTTHUMT00013000872 | bA298P3.2-001 | 13 | 30773713 | 30800270 |
| A4 | OTTHUMT00013000873 | bA298P3.2-002 | 13 | 30773810 | 30800270 |
| A4 | OTTHUMT00013000874 | bA298P3.2-003 | 13 | 30773814 | 30788840 |
| A4 | OTTHUMT00013000875 | bA298P3.2-004 | 13 | 30773954 | 30800151 |
| A4 | ENSESTT00000037479 | | 13 | 30774634 | 30800259 |
| A4 | ENSESTT00000037481 | | 13 | 30774983 | 30779922 |
| A4 | ENST00000267044 | NM_052818 | 13 | 30775079 | 30779464 |
| A4 | ENST00000306588 | Q8WTU5 | 13 | 30775281 | 30800219 |
| A4 | OTTHUMT00013000876 | bA298P3.2-005 | 13 | 30775816 | 30800151 |
| A4 | OTTHUMT00013000878 | bA298P3.2-007 | 13 | 30778590 | 30800143 |
| A4 | ENST00000332066 | NM_014081 | 13 | 30779092 | 30779373 |
| A4 | OTTHUMT00013000877 | bA298P3.2-006 | 13 | 30797059 | 30800151 |
| A4 | OTTHUMT00013000879 | bA298P3.2-008 | 13 | 30797495 | 30805091 |
| A4 | ENSESTT00000037480 | | 13 | 30797642 | 30800151 |
| A4 | OTTHUMT00013000888 | bA298P3.3-001 | 13 | 30804554 | 30818619 |
| A4 | ENSESTT00000037478 | | 13 | 30804625 | 30814984 |
| A4 | ENST00000267052 | NM_033111 | 13 | 30804924 | 30818554 |
| A4 | ENSESTT00000037476 | | 13 | 30815994 | 30910936 |
| A4 | OTTHUMT00013000896 | bA11K16.4-001 | 13 | 30816130 | 30816268 |
| A4 | OTTHUMT00013000890 | bA11K16.1-001 | 13 | 30849411 | 30850978 |
| A4 | OTTHUMT00013000892 | bA11K16.2-001 | 13 | 30852732 | 30890057 |
| A4 | OTTHUMT00013000894 | bA11K16.3-001 | 13 | 30864436 | 30870629 |
| A4 | ENST00000267068 | NM_014887 | 13 | 30889031 | 30910919 |
| A4 | OTTHUMT00013000897 | bA11K16.4-002 | 13 | 30889031 | 30910919 |
| A4 | ENSESTT00000037473 | | 13 | 30889508 | 30894409 |
| A4 | ENSESTT00000037471 | | 13 | 30889508 | 30908302 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|----------------|----|-------------------|
| A4 | ENSESTT00000037474 | | | | |
| A4 | OTTHUMT00013000898 | | | | |
| A4 | ENSESTT00000037472 | | bA11K16.4-003 | 13 | 30889684 30893770 |
| A4 | ENSESTT00000037467 | | | 13 | 30889998 30908006 |
| A4 | ENSESTT00000037477 | | | 13 | 30899013 30908193 |
| A4 | ENSESTT00000037470 | | | 13 | 30907172 30908872 |
| A4 | OTTHUMT00013000899 | | | 13 | 30908368 30910932 |
| A4 | ENSESTT00000037475 | | | 13 | 30908503 30910929 |
| A4 | ENSESTT00000037468 | | bA11K16.4-004 | 13 | 30908564 30910962 |
| A4 | OTTHUMT00013000906 | | | 13 | 30908708 30910962 |
| A4 | ENST00000261578 | | | 13 | 30958592 31031343 |
| A4 | OTTHUMT00013000907 | | 49J10.1-006 | 13 | 30958624 31118238 |
| A4 | OTTHUMT00013000908 | | APRIN | 13 | 30958642 31145465 |
| A4 | ENSESTT00000037469 | | 49J10.1-007 | 13 | 30958685 31118238 |
| A4 | OTTHUMT00013000904 | | 49J10.1-008 | 13 | 30958688 31024465 |
| A4 | ENSESTT00000037369 | | 49J10.1-002 | 13 | 30958704 31021469 |
| A4 | ENSESTT00000037370 | | | 13 | 30958706 31022754 |
| A4 | OTTHUMT00013000905 | | | 13 | 31071946 31113272 |
| A4 | ENSESTT00000037371 | | 49J10.1-004 | 13 | 31073121 31113272 |
| A4 | OTTHUMT00013000915 | | | 13 | 31073219 31079179 |
| A4 | OTTHUMT00013000914 | | bA380B4.1-002 | 13 | 31073219 31079179 |
| A4 | ENSESTT00000037372 | | bA380B4.1-001 | 13 | 31125470 31148043 |
| A4 | OTTHUMT00013000918 | | | 13 | 31125470 31150157 |
| A4 | OTTHUMT00013000920 | | bA380B4.2-001 | 13 | 31130670 31143217 |
| A4 | ENSESTT00000037388 | | bA218A18.1-001 | 13 | 31249569 31283788 |
| A4 | OTTHUMT00013003671 | | KL-002 | 13 | 31325521 31326539 |
| A4 | ENST00000255481 KL | | | 13 | 31385588 31388081 |
| A4 | OTTHUMT00013003670 | | | 13 | 31388571 31436440 |
| A4 | OTTHUMT00013000926 | | KL-001 | 13 | 31388571 31438279 |
| A4 | ENSESTT00000037373 | | bA81F11.1-001 | 13 | 31388571 31438282 |
| A4 | ENSESTT00000037386 | | | 13 | 31475278 31578143 |
| A4 | ENST00000255486 | | | 13 | 31476827 31478958 |
| A4 | ENSESTT00000037387 | | STARD13 | 13 | 31477004 31484030 |
| A4 | OTTHUMT00013000930 | | | 13 | 31477730 31558159 |
| | | | bA81F11.1-005 | 13 | 31482009 31484030 |
| | | | | 13 | 31483921 31485330 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|----------------|----|-------------------|
| A4 | OTTHUMT00013000924 | | | | |
| A4 | ENSEST00000037374 | | bA81F11.4-001 | 13 | 31494713 31495797 |
| A4 | OTTHUMT00013000928 | | | 13 | 31494713 31495802 |
| A4 | ENSEST00000037379 | | bA81F11.1-003 | 13 | 31501869 31558216 |
| A4 | ENSEST00000037378 | | | 13 | 31502223 31578161 |
| A4 | OTTHUMT00013000929 | | | 13 | 31502350 31722654 |
| A4 | ENSEST00000037380 | | bA81F11.1-004 | 13 | 31510566 31539759 |
| A4 | OTTHUMT00013000927 | | | 13 | 31510566 31539761 |
| A4 | OTTHUMT00013000922 | | bA81F11.1-002 | 13 | 31527573 31657844 |
| A4 | ENSEST00000037385 | | bA81F11.2-001 | 13 | 31530724 31536546 |
| A4 | ENSEST00000037384 | | | 13 | 31530724 31536546 |
| A4 | OTTHUMT00013000936 | | bA81F11.3-001 | 13 | 31547153 31657728 |
| A4 | ENSEST00000037383 | | | 13 | 31562078 31657873 |
| A4 | OTTHUMT00013000938 | | bA363P13.1-001 | 13 | 31647964 31657873 |
| A4 | ENSEST00000037375 | | | 13 | 31649690 31653471 |
| A4 | ENSEST00000037381 | | | 13 | 31649690 31653473 |
| A4 | OTTHUMT00013000940 | | bA141M1.1-001 | 13 | 31705816 31720135 |
| A4 | ENSEST00000037382 | | | 13 | 31705983 31707403 |
| A4 | OTTHUMT00013000942 | | bA141M1.4-001 | 13 | 31705983 31707414 |
| A4 | ENSEST00000037377 | | | 13 | 31720744 31722761 |
| A4 | OTTHUMT00013000946 | | bA141M1.3-001 | 13 | 31721064 31722742 |
| A4 | OTTHUMT00013000948 | | bA141M1.3-003 | 13 | 31727343 32048905 |
| A4 | ENSEST00000037376 | | | 13 | 31883467 31896459 |
| A4 | OTTHUMT00013000944 | | bA37L2.1-001 | 13 | 31883467 31896459 |
| A4 | OTTHUMT00013000947 | | bA141M1.3-002 | 13 | 31983104 31983659 |
| A4 | OTTHUMT00013000954 | | bA179A7.2-001 | 13 | 32026796 32048861 |
| A4 | OTTHUMT00013000952 | | RFC3-001 | 13 | 32029573 32032065 |
| A4 | ENSEST00000039806 | | | 13 | 32190203 32209633 |
| A4 | ENSEST00000039805 | | | 13 | 32190245 32209644 |
| A4 | ENSEST00000039804 | | | 13 | 32190245 32338382 |
| A4 | ENST000000255484 | | | 13 | 32190245 32338695 |
| A4 | OTTHUMT00013000956 | | RFC3 | 13 | 32190316 32208432 |
| A4 | OTTHUMT00013000958 | | bA218I21.1-001 | 13 | 32454566 32455447 |
| A4 | ENSEST00000039807 | | bA266E6.1-001 | 13 | 32807587 33012822 |
| | | | | 13 | 32807587 33012822 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|---------------------|----|-----------|-----------|
| A4 | OTTHUMT00013000959 | | | | |
| A4 | ENSESTT00000039808 | bA266E6.1-002 | 13 | 32905983 | 32906487 |
| A4 | OTTHUMT00013000962 | | 13 | 32905983 | 32906487 |
| A4 | OTTHUMT00013000972 | bA266E6.2-001 | 13 | 32946341 | 32946803 |
| A4 | ENST00000310336 | NBEA-001 | 13 | 33314456 | 34044873 |
| A5 | ENSESTT00000038767 | NBEA | 13 | 33314958 | 34043128 |
| A5 | ENSESTT00000038766 | | 7 | 101019421 | 101400637 |
| A5 | ENSESTT00000038765 | | 7 | 101019421 | 101485396 |
| A5 | OTTHUMT00007006261 | | 7 | 101019421 | 101487431 |
| A5 | ENST000000292538 | CUTL1 | 7 | 101019473 | 101487362 |
| A5 | ENST000000292535 | CUTL1 | 7 | 101019492 | 101486563 |
| A5 | ENSESTT00000038777 | CUTL1 | 7 | 101021063 | 101453321 |
| A5 | ENSESTT00000038768 | | 7 | 101081303 | 101082106 |
| A5 | ENSESTT00000038771 | | 7 | 101119629 | 101231763 |
| A5 | ENSESTT00000038770 | | 7 | 101273798 | 101400637 |
| A5 | ENSESTT00000038769 | | 7 | 101273798 | 101485396 |
| A5 | ENSESTT00000038772 | | 7 | 101273798 | 101487431 |
| A5 | OTTHUMT00007006649 | | 7 | 101362019 | 101397352 |
| | | mbhbmh_gw729093. | | | |
| | | 100322718.100376677 | | | |
| | | .3.8e- | 7 | 101400541 | 101405344 |
| A5 | ENSESTT00000038778 | | 7 | 101400655 | 101404987 |
| A5 | OTTHUMT00007007070 | mbhbmh_H_RG313A17 | | | |
| | | _F193468.fgenes2.2 | 7 | 101429721 | 101452503 |
| A5 | OTTHUMT00007007797 | Hs_7_c1557 | 7 | 101468176 | 101468461 |
| A5 | ENSESTT00000038775 | | 7 | 101477627 | 101484340 |
| A5 | ENSESTT00000038774 | | 7 | 101477627 | 101485396 |
| A5 | ENSESTT00000038773 | | 7 | 101477627 | 101487431 |
| A5 | ENSESTT00000038776 | | 7 | 101486181 | 101487431 |
| A5 | ENSESTT00000038779 | | 7 | 101488534 | 101512349 |
| A5 | OTTHUMT00007006892 | mbax_h_100048510 | | | |
| | | _100795952_m_ | | | |
| | | _134702119_1_ | 7 | 101498891 | 101522278 |
| A5 | ENST000000306803 | NM_020979 | 7 | 101504016 | 101522278 |
| A5 | ENSESTT00000038780 | | 7 | 101517823 | 101522351 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|----------------------|---|-----------|-----------|
| A5 | OTTHUMT000007007831 | Hs_7_c1560 | 7 | 101527852 | 101530126 |
| A5 | OTTHUMT000007007835 | Hs_7_c1561 | 7 | 101537904 | 101547742 |
| A5 | OTTHUMT000007006950 | mbhmh_ts.101.008.a | 7 | 101547738 | 101553959 |
| A5 | ENST00000331921 | | 7 | 101548723 | 101555503 |
| A5 | ENST00000332533 | | 7 | 101551346 | 101554016 |
| A5 | ENSESTT00000038782 | | 7 | 101564512 | 101576836 |
| A5 | ENSESTT00000038781 | | 7 | 101564512 | 101581544 |
| A5 | ENSESTT00000038783 | | 7 | 101564790 | 101581544 |
| A5 | OTTHUMT000007007838 | Hs_7_c1564 | 7 | 101564796 | 101586300 |
| A5 | ENSESTT00000038785 | | 7 | 101566265 | 101576836 |
| A5 | ENSESTT00000038784 | | 7 | 101566265 | 101581544 |
| A5 | ENST00000329536 | | 7 | 101576257 | 101576794 |
| A5 | OTTHUMT000007007842 | Hs_7_c1565 | 7 | 101581374 | 101583647 |
| A5 | ENST00000262936 | PRKRIP1 | 7 | 101597276 | 101627593 |
| A5 | ENSESTT00000038786 | | 7 | 101597306 | 101626253 |
| A5 | ENST00000292563 | C7orf19 | 7 | 101634483 | 101649629 |
| A5 | OTTHUMT000007006331 | CBCIP2 | 7 | 101634489 | 101649629 |
| A5 | ENSESTT00000038787 | | 7 | 101634512 | 101647966 |
| A5 | ENSESTT00000038788 | | 7 | 101637128 | 101647966 |
| A5 | OTTHUMT000007006536 | FLJ20013 | 7 | 101657151 | 101665754 |
| A5 | ENST00000292566 | NM_017621 | 7 | 101657178 | 101665774 |
| A5 | ENSESTT00000038837 | | 7 | 101658436 | 101665789 |
| A5 | OTTHUMT000007006660 | mbhmh_nh_h_100048510 | | | |
| | | _100795952_m_1347021 | 7 | 101665582 | 101673962 |
| | | _NM_152892 | 7 | 101665847 | 101673962 |
| A5 | ENST00000292616 | | 7 | 101665866 | 101669568 |
| A5 | ENSESTT00000038789 | | 7 | 101670502 | 101675765 |
| A5 | ENSESTT00000038790 | | 7 | 101670502 | 101675765 |
| A5 | ENSESTT00000038791 | | 7 | 101674085 | 101770880 |
| A5 | ENSESTT00000038802 | | 7 | 101674197 | 101679846 |
| A5 | ENSESTT00000038803 | | 7 | 101674370 | 101679823 |
| A5 | OTTHUMT000007006868 | POLR2J | 7 | 101674370 | 101869945 |
| A5 | ENSESTT00000038807 | | 7 | 101674562 | 101679773 |
| A5 | ENST00000292614 | POLR2J | 7 | 101675112 | 101679773 |
| A5 | ENST00000326391 | | 7 | | |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|---|-----------|-----------|
| A5 | ENSESTT00000038806 | | 7 | 101675384 | 101872600 |
| A5 | OTTHUMT00007006642 | HSPC047.1 | 7 | 101680646 | 101681562 |
| A5 | ENSESTT00000038818 | | 7 | 101684052 | 101884280 |
| A5 | ENSESTT00000038815 | | 7 | 101684387 | 101887718 |
| A5 | ENSESTT00000038813 | | 7 | 101684414 | 101889940 |
| A5 | ENST00000306682 | NM_006989 | 7 | 101684505 | 101718623 |
| A5 | OTTHUMT00007006603 | mbhmh_gw5901958 .100606911 .100642795.1.6e7 | | | |
| A5 | ENSESTT00000038814 | | 7 | 101684508 | 101718623 |
| A5 | ENSESTT00000038819 | | 7 | 101685947 | 101889940 |
| A5 | ENSESTT00000038831 | | 7 | 101685981 | 101793412 |
| A5 | ENSESTT00000038792 | | 7 | 101691969 | 101794030 |
| A5 | ENSESTT00000038793 | | 7 | 101694343 | 101794786 |
| A5 | ENSESTT00000038795 | | 7 | 101694383 | 101794951 |
| A5 | ENSESTT00000038829 | | 7 | 101694776 | 101695508 |
| A5 | ENSESTT00000038828 | | 7 | 101697050 | 101702049 |
| A5 | ENSESTT00000038826 | | 7 | 101697479 | 101707749 |
| A5 | ENSESTT00000038821 | | 7 | 101697813 | 101801370 |
| A5 | ENSESTT00000038822 | | 7 | 101710309 | 101817727 |
| A5 | ENSESTT00000038820 | | 7 | 101713854 | 101813329 |
| A5 | ENSESTT00000038810 | | 7 | 101724207 | 101823338 |
| A5 | ENSESTT00000038808 | | 7 | 101739241 | 101839744 |
| A5 | ENSESTT00000038809 | | 7 | 101739246 | 101866719 |
| A5 | ENST00000297278 | | 7 | 101739290 | 101866719 |
| A5 | ENSESTT00000038804 | | 7 | 101739330 | 101744501 |
| A5 | OTTHUMT00007007119 | POLR2J2 | 7 | 101742184 | 101872640 |
| A5 | ENST00000319405 | | 7 | 101742452 | 101773584 |
| A5 | OTTHUMT00007006426 | mbhmh_H_RG158017 _F218045.fgenes2.3 Hs_7_c5034 | 7 | 101755410 | 101861246 |
| A5 | OTTHUMT00007008004 | | 7 | 101757047 | 101763166 |
| A5 | ENSESTT00000038796 | | 7 | 101763162 | 101768147 |
| A5 | ENSESTT00000038811 | | 7 | 101766314 | 101869984 |
| A5 | ENST00000323465 | NM_145325 | 7 | 101768689 | 101773566 |
| | | | | 101768862 | 101773534 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--|---|-----------|-----------|
| A5 | OTTHUMT00007006643 | HSPC047.2 | 7 | 101774402 | 101780795 |
| A5 | ENSESTT00000038817 | | 7 | 101783624 | 101884523 |
| A5 | ENSESTT00000038816 | | 7 | 101783749 | 101884558 |
| A5 | ENST00000262940 | MSG5_HUMAN | 7 | 101783754 | 101817670 |
| A5 | OTTHUMT00007006268 | CAPRI | 7 | 101783754 | 101817670 |
| A5 | ENSESTT00000038797 | | 7 | 101793580 | 101890696 |
| A5 | ENSESTT00000038794 | | 7 | 101794005 | 101794745 |
| A5 | ENSESTT00000038827 | | 7 | 101796283 | 101801278 |
| A5 | ENSESTT00000038825 | | 7 | 101796715 | 101806980 |
| A5 | OTTHUMT00007006314 | mbhmh_gw12844788. 100760681.100765918 .2.7 | | | |
| A5 | OTTHUMT00007007045 | mbhmh_ts.101.018.a | 7 | 101838509 | 101841746 |
| A5 | ENST000000312297 | | 7 | 101853330 | 101862231 |
| A5 | OTTHUMT00007008008 | | 7 | 101855961 | 101858620 |
| A5 | ENSESTT00000038805 | Hs_7_c5035 | 7 | 101862227 | 101867194 |
| A5 | OTTHUMT00007006195 | mbhmh_h_100048510 100795952_m_ 134702119_ | 7 | 101867736 | 101872630 |
| A5 | OTTHUMT00007007904 | Hs_7_c1585 | 7 | 101867909 | 101872582 |
| A5 | OTTHUMT00007007905 | Hs_7_c1586 | 7 | 101879466 | 101879837 |
| A5 | ENST000000329942 | Q96C79 | 7 | 101882816 | 101891453 |
| A5 | ENSESTT00000038798 | | 7 | 101889904 | 101890065 |
| A5 | OTTHUMT00007007907 | Hs_7_c1587 | 7 | 101889915 | 101890655 |
| A5 | ENSESTT00000038812 | | 7 | 101904290 | 101904451 |
| A5 | ENSESTT00000038799 | | 7 | 101904439 | 101949674 |
| A5 | ENSESTT00000038800 | | 7 | 101949942 | 101962382 |
| A5 | ENST000000314526 | NM_147194 | 7 | 101949949 | 101988333 |
| A5 | ENST000000314157 | Hs_7_c1588 | 7 | 101950186 | 101950617 |
| A5 | OTTHUMT00007007908 | mbhmh_h_100815628 101274767_m_ 19823891_2_ | 7 | 101956102 | 101956916 |
| A5 | OTTHUMT00007006547 | | 7 | 101956129 | 101956907 |
| A5 | ENSESTT00000038801 | | 7 | 101960818 | 101982855 |
| | | | 7 | 101988311 | 102009612 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-------------------|---|-----------|-----------|
| A5 | OTTHUMT00007007909 | Hs_7_c1589 | 7 | 102000041 | 102007712 |
| A5 | OTTHUMT00007006171 | MGC21636 | 7 | 102014212 | 102174163 |
| A5 | ENST000000313221 | NM_145032 | 7 | 102014214 | 102230396 |
| A5 | ENST000000313196 | Q8N1P0 | 7 | 102014320 | 102228534 |
| A5 | ENSESTT00000040069 | | 7 | 102113941 | 102146070 |
| A5 | ENST000000249377 | LRRC17 | 7 | 102113983 | 102145927 |
| A5 | OTTHUMT00007006209 | P37NB | 7 | 102113983 | 102145927 |
| A5 | ENSESTT00000040175 | | 7 | 102127277 | 102174180 |
| A5 | ENSESTT00000040070 | | 7 | 102140423 | 102146070 |
| A5 | ENST000000335370 | Q86UQ8 | 7 | 102174535 | 102177193 |
| A5 | ENSESTT00000040174 | | 7 | 102226175 | 102275821 |
| A5 | OTTHUMT00007007936 | Hs_7_c1593 | 7 | 102270250 | 102270369 |
| A5 | ENSESTT00000040076 | | 7 | 102276116 | 102288294 |
| A5 | ENSESTT00000040075 | | 7 | 102276116 | 102299941 |
| A5 | OTTHUMT00007006404 | MGC3195 | 7 | 102276139 | 102299655 |
| A5 | ENST000000323716 | NM_031905 | 7 | 102276251 | 102299531 |
| A5 | ENST000000306450 | Q8IZC1 | 7 | 102276251 | 102299531 |
| A5 | ENST000000323735 | Q8IZC2 | 7 | 102276251 | 102299531 |
| A5 | ENSESTT00000040171 | | 7 | 102303502 | 102321207 |
| A5 | ENSESTT00000040170 | | 7 | 102303502 | 102329508 |
| A5 | ENSESTT00000040173 | | 7 | 102304193 | 102316319 |
| A5 | ENSESTT00000040172 | | 7 | 102304334 | 102320671 |
| A5 | OTTHUMT00007006927 | mbhmh_h_100815628 | | | |
| | | _101274767_m | | | |
| | | _19823891_2 | 7 | 102307967 | 102331431 |
| A5 | ENST000000292634 | | 7 | 102316038 | 102321120 |
| A5 | OTTHUMT00007007937 | Hs_7_c1596 | 7 | 102342330 | 102342917 |
| A5 | ENST000000327597 | | 7 | 102342504 | 102342917 |
| A5 | ENST000000333351 | | 7 | 102353043 | 102353323 |
| A5 | OTTHUMT00007007938 | Hs_7_c1597 | 7 | 102353043 | 102353323 |
| A5 | ENSESTT00000040163 | | 7 | 102376120 | 102396451 |
| A5 | ENSESTT00000040164 | | 7 | 102376238 | 102386518 |
| A5 | ENSESTT00000040161 | | 7 | 102376238 | 102411289 |
| A5 | OTTHUMT00007007939 | Hs_7_c1598 | 7 | 102376305 | 102481130 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-----------|---|-----------|-----------|
| A5 | ENST000000306389 | NM_182634 | 7 | 102398168 | 102444053 |
| A5 | ENSETT00000040162 | | 7 | 102398194 | 102399966 |
| A5 | ENSETT00000040160 | | 7 | 102399052 | 102411365 |
| A5 | ENST00000257741 | S100A11P | 7 | 102462978 | 102463286 |
| A5 | OTTHUMT00007006524 | S100A14 | 7 | 102462978 | 102463286 |
| A5 | ENSESTT00000040158 | | 7 | 102478355 | 102481237 |
| A5 | ENST00000320297 | Q8N7T0 | 7 | 102478580 | 102481130 |
| A5 | ENSESTT00000040082 | | 7 | 102498413 | 102511457 |
| A5 | OTTHUMT00007006222 | PMPCB | 7 | 102498424 | 102513390 |
| A5 | ENST00000249269 | PMPCB | 7 | 102498438 | 102513249 |
| A5 | ENSESTT00000040083 | | 7 | 102504818 | 102511457 |
| A5 | ENSESTT00000040095 | | 7 | 102513072 | 102513736 |
| A5 | OTTHUMT00007006445 | mpp11 | 7 | 102513452 | 102545644 |
| A5 | ENSESTT00000040149 | | 7 | 102513455 | 102520658 |
| A5 | ENSESTT00000040147 | | 7 | 102513455 | 102520824 |
| A5 | ENSESTT00000040145 | | 7 | 102513455 | 102528369 |
| A5 | ENSESTT00000040141 | | 7 | 102513455 | 102528679 |
| A5 | ENSESTT00000040142 | | 7 | 102513455 | 102528679 |
| A5 | ENSESTT00000040133 | | 7 | 102513455 | 102545745 |
| A5 | ENSESTT00000040134 | | 7 | 102513455 | 102545745 |
| A5 | ENSESTT00000040135 | | 7 | 102513455 | 102545745 |
| A5 | ENSESTT00000040136 | | 7 | 102513455 | 102545745 |
| A5 | ENSESTT00000040129 | | 7 | 102513455 | 102545791 |
| A5 | ENSESTT00000040130 | | 7 | 102513455 | 102545791 |
| A5 | ENSESTT00000040151 | | 7 | 102513480 | 102514323 |
| A5 | ENSESTT00000040150 | | 7 | 102513495 | 102517068 |
| A5 | ENST00000249270 | ZRF1 | 7 | 102513500 | 102545600 |
| A5 | ENST00000222539 | Q9BVX1 | 7 | 102513547 | 102523062 |
| A5 | ENSESTT00000040148 | | 7 | 102516740 | 102520824 |
| A5 | ENSESTT00000040146 | | 7 | 102517478 | 102528369 |
| A5 | ENSESTT00000040143 | | 7 | 102517478 | 102528679 |
| A5 | ENSESTT00000040144 | | 7 | 102517478 | 102528679 |
| A5 | ENSESTT00000040137 | | 7 | 102517478 | 102545745 |
| A5 | ENSESTT00000040138 | | 7 | 102517478 | 102545745 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|-------------------|---|-----------|-----------|
| A5 | ENSESTT000000040139 | | 7 | 102517478 | 102545745 |
| A5 | ENSESTT000000040140 | | 7 | 102517478 | 102545745 |
| A5 | ENSESTT000000040131 | | 7 | 102517478 | 102545791 |
| A5 | ENSESTT000000040132 | | 7 | 102517478 | 102545791 |
| A5 | ENSESTT000000040096 | | 7 | 102548636 | 102563744 |
| A5 | ENSESTT000000040097 | | 7 | 102548652 | 102569791 |
| A5 | ENSESTT000000040098 | | 7 | 102548654 | 102569791 |
| A5 | OTTHUMT00007006130 | PSMC2 | 7 | 102548658 | 102569187 |
| A5 | ENSESTT000000040100 | | 7 | 102548673 | 102565286 |
| A5 | ENSESTT000000040099 | | 7 | 102548673 | 102569791 |
| A5 | ENSESTT000000040101 | | 7 | 102548684 | 102565286 |
| A5 | ENST00000292644 | PSMC2 | 7 | 102548690 | 102569032 |
| A5 | OTTHUMT00007007711 | Hs_7_c1604 | 7 | 102549579 | 102549746 |
| A5 | ENSESTT000000040103 | | 7 | 102556671 | 102565286 |
| A5 | ENSESTT000000040104 | | 7 | 102556671 | 102565286 |
| A5 | ENSESTT000000040102 | | 7 | 102556671 | 102569791 |
| A5 | ENSESTT000000040106 | | 7 | 102562512 | 102565286 |
| A5 | ENSESTT000000040105 | | 7 | 102562512 | 102569791 |
| A5 | OTTHUMT00007007089 | mbhmh_h_101446068 | | | |
| | | 102346067_m | | | |
| | | _20202649_2 | | | |
| A5 | ENST00000306312 | PRES_HUMAN | 7 | 102575377 | 102600632 |
| A5 | OTTHUMT00007007256 | RELN | 7 | 102575377 | 102622492 |
| A5 | ENSESTT000000040126 | | 7 | 102672768 | 103190494 |
| A5 | ENSESTT000000040125 | | 7 | 102673292 | 102684682 |
| A5 | ENSESTT000000040124 | | 7 | 102684757 | 102690743 |
| A5 | ENSESTT000000040123 | | 7 | 102691660 | 102698900 |
| A5 | ENSESTT000000040122 | | 7 | 102699088 | 102716370 |
| A5 | ENSESTT000000040121 | | 7 | 102721238 | 102741291 |
| A5 | ENSESTT000000040120 | | 7 | 102743823 | 102746233 |
| A5 | ENSESTT000000040118 | | 7 | 102795307 | 102812764 |
| A5 | ENSESTT000000040117 | | 7 | 102828853 | 102831012 |
| A5 | ENSESTT000000040114 | | 7 | 102836540 | 102853738 |
| A5 | OTTHUMT00007006419 | PRO1598 | 7 | 102898905 | 102924166 |
| | | | 7 | 103134831 | 103136533 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-------------------|---|-----------|-----------|
| A5 | ENST000000314952 | NM_018503 | 7 | 103135443 | 103135619 |
| A5 | ENSESTT00000070876 | | 7 | 103327319 | 103337875 |
| A5 | OTTHUMT00007006177 | ORC5L | 7 | 103327321 | 103408971 |
| A5 | ENST00000297431 | ORC5L | 7 | 103327826 | 103408883 |
| A5 | ENSESTT00000070875 | | 7 | 103368963 | 103389283 |
| A5 | OTTHUMT00007007749 | Hs_7_c1615 | 7 | 103380669 | 103381272 |
| A5 | OTTHUMT00007006936 | mbhmh_h_102246067 | | | |
| | | _103146066_m_ | | | |
| | | 21002648_2 | 7 | 103529801 | 103714756 |
| A5 | ENSESTT00000070872 | | 7 | 103529849 | 104107212 |
| A5 | ENST00000330383 | | 7 | 103868727 | 103869859 |
| A5 | OTTHUMT00007007754 | Hs_7_c1617 | 7 | 103868727 | 103870551 |
| A5 | ENSESTT00000070874 | | 7 | 103868774 | 103870161 |
| A5 | OTTHUMT00007007536 | Hs_7_c3016 | 7 | 103871565 | 103871676 |
| A5 | OTTHUMT00007007047 | mbhmh_h_102246067 | | | |
| | | _103146066_m_ | | | |
| | | 21002648_2 | 7 | 103887281 | 103938199 |
| A5 | ENSESTT00000070873 | | 7 | 103939577 | 103945127 |
| A5 | OTTHUMT00007006239 | nh_nm_gi16307605 | 7 | 103997484 | 104005062 |
| A5 | OTTHUMT00007007758 | Hs_7_c1619 | 7 | 104027314 | 104027771 |
| A5 | ENSESTT00000041852 | | 7 | 104142399 | 104163317 |
| A5 | OTTHUMT00007007780 | Hs_7_c1620 | 7 | 104191028 | 104191180 |
| A5 | ENSESTT00000041867 | | 7 | 104215182 | 104242044 |
| A5 | ENSESTT00000041866 | | 7 | 104215182 | 104263257 |
| A5 | ENSESTT00000041864 | | 7 | 104215182 | 104265008 |
| A5 | ENSESTT00000041865 | | 7 | 104215182 | 104265008 |
| A5 | ENSESTT00000041862 | | 7 | 104215182 | 104275754 |
| A5 | ENSESTT00000041863 | | 7 | 104215182 | 104275754 |
| A5 | ENST00000311117 | MLL5 | 7 | 104215186 | 104314311 |
| A5 | ENSESTT00000041854 | | 7 | 104215192 | 104242044 |
| A5 | ENSESTT00000041853 | | 7 | 104215192 | 104263257 |
| A5 | ENSESTT00000041868 | | 7 | 104215192 | 104275754 |
| A5 | ENSESTT00000041855 | | 7 | 104215403 | 104275754 |
| A5 | OTTHUMT00007006515 | MLL5 | 7 | 104241847 | 104302458 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|------------|---|-----------|-----------|
| A5 | ENST000000257745 | O95038 | 7 | 104241931 | 104301566 |
| A5 | ENST000000333597 | Q8IWR5 | 7 | 104241931 | 104314311 |
| A5 | ENSESTT00000041857 | | 7 | 104264328 | 104303627 |
| A5 | ENSESTT00000041856 | | 7 | 104264328 | 104307572 |
| A5 | ENST000000222422 | Q9NS29 | 7 | 104264368 | 104291189 |
| A5 | ENSESTT00000041858 | | 7 | 104267501 | 104275739 |
| A5 | ENSESTT00000041859 | | 7 | 104278279 | 104291101 |
| A5 | ENST000000334914 | Q86W16 | 7 | 104278380 | 104290339 |
| A5 | ENSESTT00000041860 | | 7 | 104279822 | 104291098 |
| A5 | ENSESTT00000041861 | | 7 | 104302560 | 104307572 |
| A5 | ENST000000249297 | Q86W12 | 7 | 104302864 | 104308193 |
| A5 | ENSESTT00000041870 | | 7 | 104307682 | 104310494 |
| A5 | ENSESTT00000041869 | | 7 | 104307682 | 104313681 |
| A5 | OTTHUMT00007007782 | Hs_7_c1623 | 7 | 104308132 | 104313327 |
| A5 | ENSESTT00000041872 | | 7 | 104308136 | 104310494 |
| A5 | ENSESTT00000041871 | | 7 | 104308136 | 104313681 |
| A5 | ENSESTT00000041873 | | 7 | 104308939 | 104313681 |
| A5 | ENST000000334884 | Q86TI3 | 7 | 104310018 | 104311845 |
| A5 | ENSESTT00000041909 | | 7 | 104311672 | 104318457 |
| A5 | ENST000000334877 | Q86WGO | 7 | 104312977 | 104314348 |
| A5 | OTTHUMT00007006319 | SRPK2 | 7 | 104317346 | 104469993 |
| A5 | ENST000000257701 | SRPK2 | 7 | 104317350 | 104470008 |
| A5 | ENSESTT00000041904 | | 7 | 104318221 | 104470012 |
| A5 | ENSESTT00000041900 | | 7 | 104318221 | 104589682 |
| A5 | ENSESTT00000041896 | | 7 | 104318221 | 104589703 |
| A5 | ENSESTT00000041910 | | 7 | 104318221 | 104589839 |
| A5 | ENSESTT00000041908 | | 7 | 104318327 | 104404634 |
| A5 | ENSESTT00000041905 | | 7 | 104318558 | 104470012 |
| A5 | ENSESTT00000041901 | | 7 | 104318558 | 104589682 |
| A5 | ENSESTT00000041897 | | 7 | 104318558 | 104589703 |
| A5 | ENSESTT00000041911 | | 7 | 104318558 | 104589839 |
| A5 | ENSESTT00000041906 | | 7 | 104346254 | 104470012 |
| A5 | ENSESTT00000041902 | | 7 | 104346254 | 104589682 |
| A5 | ENSESTT00000041898 | | 7 | 104346254 | 104589703 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|---|------------|-----------|
| A5 | ENSESTT000000041894 | 7 | 104346254 | 104589839 |
| A5 | ENSESTT000000041907 | 7 | 104361279 | 104470012 |
| A5 | ENSESTT000000041903 | 7 | 104361279 | 104589682 |
| A5 | ENSESTT000000041899 | 7 | 104361279 | 104589703 |
| A5 | ENSESTT000000041895 | 7 | 104361279 | 104589839 |
| A5 | OTTHUMT00007007787 | 7 | 104390180 | 104390804 |
| A5 | OTTHUMT00007007788 | 7 | 104405611 | 104405835 |
| A5 | OTTHUMT00007007791 | 7 | 104445633 | 104445945 |
| A5 | OTTHUMT00007007792 | 7 | 104502500 | 104503061 |
| A5 | OTTHUMT00007007794 | 7 | 104555221 | 104555496 |
| A5 | ENST00000257687 | 7 | 104657493 | 104709424 |
| A5 | ENSESTT000000041893 | 7 | 104658206 | 104660239 |
| A5 | ENSESTT000000041892 | 7 | 104658241 | 104707036 |
| A5 | OTTHUMT00007006894 | 7 | 104658637 | 104723192 |
| A5 | ENSESTT000000041890 | 7 | 104683290 | 104723218 |
| A5 | ENSESTT000000041891 | 7 | 104706926 | 104723218 |
| A5 | ENST00000320648 | 7 | 104731187 | 104731649 |
| A5 | ENSESTT000000041876 | 7 | 104733157 | 104743633 |
| A5 | ENSESTT000000041875 | 7 | 104733157 | 104764927 |
| A5 | ENSESTT000000041874 | 7 | 104733157 | 104766577 |
| A5 | ENST00000257700 | 7 | 104733207 | 104768660 |
| A5 | ENSESTT000000041877 | 7 | 104743218 | 104747974 |
| A5 | OTTHUMT00007006406 | 7 | 104751134 | 104768660 |
| A5 | ENSESTT000000041887 | 7 | 104766086 | 104770452 |
| A5 | ENSESTT000000041888 | 7 | 104766102 | 104770414 |
| A5 | ENSESTT000000041886 | 7 | 104766102 | 104770466 |
| A5 | ENSESTT000000041889 | 7 | 104766110 | 104770281 |
| A5 | ENSESTT000000041885 | 7 | 104768394 | 104782425 |
| A5 | ENSESTT000000041884 | 7 | 104768394 | 104782668 |
| A5 | ENST00000327788 | 7 | 104768432 | 104782432 |
| A5 | ENST00000310149 | 7 | 104783163 | 104784060 |
| A5 | ENST00000329090 | 7 | 104783236 | 104784089 |
| A5 | ENST00000332220 | 7 | 104783236 | 104784134 |
| A5 | OTTHUMT00007007834 | 7 | 104783239 | 104784179 |
| | | | Hs_7_c1634 | |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|--|---|-----------|-----------|
| A5 | OTTHUMT000007006590 | mbhnh_h_103713457 _104613456_m _26903715_2 | 7 | 104792229 | 104844029 |
| A5 | ENSESTT00000041883 | YC18_HUMAN | 7 | 104808623 | 104811530 |
| A5 | ENST00000297416 | Q9BTQ8 | 7 | 104808830 | 105077559 |
| A5 | ENST00000275664 | | 7 | 104814454 | 104825244 |
| A5 | ENSESTT00000041880 | | 7 | 104815496 | 104893101 |
| A5 | ENSESTT00000041878 | | 7 | 104816938 | 104818834 |
| A5 | ENSESTT00000041881 | | 7 | 104818847 | 104893101 |
| A5 | ENSESTT00000041882 | | 7 | 104821070 | 104893101 |
| A5 | ENSESTT00000041879 | | 7 | 104961923 | 105077563 |
| A5 | ENST00000318724 | NM_152749 | 7 | 104962355 | 105077535 |
| A5 | OTTHUMT000007007007 | mbhnh_nh_h _103713457 _104613456_ m_2690371 Hs_7_c1637 | 7 | 104989335 | 104993681 |
| A5 | OTTHUMT000007007837 | | 7 | 105020472 | 105021075 |
| A5 | ENST00000329846 | | 7 | 105020547 | 105021078 |
| A5 | ENSESTT00000035755 | | 7 | 105076067 | 105077551 |
| A5 | OTTHUMT000007007841 | Hs_7_c1638 | 7 | 105076766 | 105083558 |
| A5 | OTTHUMT000007006283 | mbhnh_h_103713457 _104613456_m _26103716_2 | 7 | 105095260 | 105151278 |
| A5 | OTTHUMT000007006180 | mbhnh_H_DJ0568B10 _F020305.fgenes2.1 | 7 | 105175823 | 105223819 |
| A5 | ENSESTT00000035734 | | 7 | 105181971 | 105197312 |
| A5 | ENSESTT00000035735 | | 7 | 105202525 | 105205801 |
| A5 | ENST00000317716 | | 7 | 105205474 | 105231797 |
| A5 | ENSESTT00000035736 | NM_152750 | 7 | 105205482 | 105221463 |
| A5 | OTTHUMT000007006497 | mbhnh_nh_h_103713457 _104613456_m_2690371 | 7 | 105224488 | 105232430 |
| A5 | ENSESTT00000035737 | | 7 | 105229534 | 105234760 |
| A5 | OTTHUMT000007006260 | SYPL | 7 | 105291482 | 105313528 |
| A5 | ENST00000011473 | SYPL | 7 | 105291489 | 105313588 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--------------|----|-----------|-----------|
| A5 | ENSESTT00000035754 | | 7 | 105292251 | 105294130 |
| A5 | ENSESTT00000035753 | | 7 | 105292251 | 105298877 |
| A5 | ENSESTT00000035750 | | 7 | 105292251 | 105313289 |
| A5 | ENSESTT00000035752 | | 7 | 105292673 | 105300262 |
| A5 | ENSESTT00000035751 | | 7 | 105300133 | 105313289 |
| A5 | OTTHUMT00007007872 | Hs_7_c1643 | 7 | 105326309 | 105327674 |
| A5 | OTTHUMT00007006155 | PBEF | 7 | 105451187 | 105485888 |
| A5 | ENSESTT00000035747 | | 7 | 105451529 | 105470301 |
| A5 | ENSESTT00000035746 | | 7 | 105451529 | 105471257 |
| A5 | ENSESTT00000035745 | | 7 | 105451529 | 105476028 |
| A5 | ENSESTT00000035740 | | 7 | 105451529 | 105486169 |
| A5 | ENSESTT00000035741 | | 7 | 105451529 | 105486169 |
| A5 | ENSESTT00000035738 | | 7 | 105451529 | 105486589 |
| A5 | ENSESTT00000035749 | | 7 | 105452034 | 105454595 |
| A5 | ENST00000222553 | PBEF_HUMAN | 7 | 105452060 | 105485898 |
| A5 | ENSESTT00000035748 | | 7 | 105462192 | 105464474 |
| A5 | ENSESTT00000035744 | | 7 | 105469472 | 105485522 |
| A5 | ENSESTT00000035742 | | 7 | 105473329 | 105486169 |
| A5 | ENSESTT00000035743 | | 7 | 105473329 | 105486169 |
| A5 | ENSESTT00000035739 | | 7 | 105473329 | 105486589 |
| A5 | OTTHUMT00007007874 | Hs_7_c1646 | 7 | 105516202 | 105516577 |
| A5 | OTTHUMT00007007875 | Hs_7_c1647 | 7 | 105831822 | 105832343 |
| A5 | OTTHUMT00007007586 | Hs_7_c3104 | 7 | 105832534 | 105833055 |
| A5 | OTTHUMT00007006262 | mbxx_nh_chr7 | | | |
| | | .105.006.a | 7 | 105833369 | 105833704 |
| A5 | ENST000000315965 | NM_175884 | 7 | 105861166 | 105861861 |
| A5 | OTTHUMT00007007876 | Hs_7_c1648 | 7 | 105861484 | 105861765 |
| A6 | ENSESTT00000021279 | | 10 | 73471701 | 73512400 |
| A6 | ENST000000311182 | CBARA1 | 10 | 73471701 | 73730468 |
| A6 | ENSESTT00000021278 | | 10 | 73472141 | 73579660 |
| A6 | ENSESTT00000021277 | | 10 | 73581559 | 73730469 |
| A6 | ENSESTT00000021276 | | 10 | 73637423 | 73730476 |
| A6 | ENSESTT00000021271 | | 10 | 73668375 | 73670920 |
| A6 | ENST000000313314 | NM_138357 | 10 | 73796492 | 73992053 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|------------|----|----------|----------|
| A6 | ENST000000286508 | Q96FL3 | 10 | 73796537 | 73990183 |
| A6 | ENSESTT00000021273 | | 10 | 73797084 | 73988744 |
| A6 | ENSESTT00000021272 | | 10 | 73797084 | 73992055 |
| A6 | ENSESTT00000021275 | | 10 | 73964348 | 73988744 |
| A6 | ENSESTT00000021274 | | 10 | 73964348 | 73992055 |
| A6 | ENST000000260885 | NM_152635 | 10 | 73997942 | 74037390 |
| A6 | ENST000000334011 | Q8WWZ8 | 10 | 73998160 | 74036885 |
| A6 | ENSESTT00000021456 | | 10 | 74016118 | 74028872 |
| A6 | ENSESTT00000021457 | | 10 | 74034940 | 74046965 |
| A6 | ENSESTT00000021528 | | 10 | 74039868 | 74058975 |
| A6 | ENST000000260878 | PLA2G13 | 10 | 74039978 | 74059139 |
| A6 | ENST000000332968 | | 10 | 74110192 | 74110956 |
| A6 | ENST000000263556 | P4HA1 | 10 | 74112583 | 74179244 |
| A6 | ENST000000307116 | P4HA1 | 10 | 74112583 | 74179244 |
| A6 | ENSESTT00000021526 | | 10 | 74118611 | 74155608 |
| A6 | ENSESTT00000021527 | | 10 | 74121207 | 74155454 |
| A6 | ENSESTT00000021525 | | 10 | 74157783 | 74201227 |
| A6 | ENST000000299408 | NUDT13 | 10 | 74214816 | 74236183 |
| A6 | ENSESTT00000021458 | | 10 | 74214883 | 74236720 |
| A6 | ENST000000335635 | Q9Y3X2 | 10 | 74226553 | 74235264 |
| A6 | ENST000000325946 | NUDT13 | 10 | 74229464 | 74229628 |
| A6 | ENST000000263565 | SGT1_HUMAN | 10 | 74238886 | 74272420 |
| A6 | ENSESTT00000021521 | | 10 | 74243730 | 74272456 |
| A6 | ENSESTT00000021522 | | 10 | 74258724 | 74272456 |
| A6 | ENSESTT00000021524 | | 10 | 74260633 | 74272402 |
| A6 | ENSESTT00000021523 | | 10 | 74260633 | 74272456 |
| A6 | ENST000000242505 | Q9Y2I0 | 10 | 74279052 | 74346541 |
| A6 | ENSESTT00000021459 | | 10 | 74332501 | 74340393 |
| A6 | ENSESTT00000021460 | | 10 | 74332502 | 74345507 |
| A6 | ENSESTT00000021461 | | 10 | 74334657 | 74340393 |
| A6 | ENSESTT00000021463 | | 10 | 74338355 | 74338793 |
| A6 | ENSESTT00000021462 | | 10 | 74339356 | 74345515 |
| A6 | ENST000000299416 | DNAJC9 | 10 | 74347761 | 74351550 |
| A6 | ENST000000299418 | MRPS16 | 10 | 74353204 | 74357012 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|-----------|----|----------|----------|
| A6 | ENSESTT000000021464 | | 10 | 74353210 | 74355109 |
| A6 | ENSESTT000000021465 | | 10 | 74357530 | 74358710 |
| A6 | ENSESTT000000021466 | | 10 | 74357561 | 74358710 |
| A6 | ENSESTT000000021520 | | 10 | 74358121 | 74379898 |
| A6 | ENST00000310715 | NM 145170 | 10 | 74358127 | 74463115 |
| A6 | ENST00000286530 | Q8N7D5 | 10 | 74358336 | 74397767 |
| A6 | ENST00000277916 | ANXA7 | 10 | 74479811 | 74518414 |
| A6 | ENST00000260852 | ANXA7 | 10 | 74480456 | 74505217 |
| A6 | ENSESTT000000021505 | | 10 | 74484518 | 74518436 |
| A6 | ENSESTT000000021506 | | 10 | 74484518 | 74518436 |
| A6 | ENSESTT000000021507 | | 10 | 74484518 | 74518436 |
| A6 | ENSESTT000000021467 | | 10 | 74485833 | 74487824 |
| A6 | ENSESTT000000021517 | | 10 | 74487551 | 74518431 |
| A6 | ENSESTT000000021508 | | 10 | 74487551 | 74518436 |
| A6 | ENSESTT000000021509 | | 10 | 74487551 | 74518436 |
| A6 | ENSESTT000000021518 | | 10 | 74487935 | 74518431 |
| A6 | ENSESTT000000021510 | | 10 | 74487935 | 74518436 |
| A6 | ENSESTT000000021511 | | 10 | 74487935 | 74518436 |
| A6 | ENSESTT000000021512 | | 10 | 74487935 | 74518436 |
| A6 | ENSESTT000000021513 | | 10 | 74487935 | 74518436 |
| A6 | ENSESTT000000021514 | | 10 | 74487935 | 74518436 |
| A6 | ENSESTT000000021519 | | 10 | 74487963 | 74518419 |
| A6 | ENSESTT000000021515 | | 10 | 74487976 | 74518436 |
| A6 | ENSESTT000000021516 | | 10 | 74492701 | 74518436 |
| A6 | ENST00000299432 | ZMYND17 | 10 | 74528914 | 74537973 |
| A6 | ENST00000265920 | PPP3CB | 10 | 74541167 | 74600362 |
| A6 | ENSESTT000000021500 | | 10 | 74542284 | 74575867 |
| A6 | ENSESTT000000021501 | | 10 | 74542284 | 74575867 |
| A6 | ENSESTT000000021502 | | 10 | 74542546 | 74575867 |
| A6 | ENSESTT000000021504 | | 10 | 74542559 | 74571979 |
| A6 | ENST00000320361 | Q8N3W4 | 10 | 74542603 | 74600250 |
| A6 | ENSESTT000000021503 | | 10 | 74548717 | 74575867 |
| A6 | ENSESTT000000021499 | | 10 | 74579279 | 74600362 |
| A6 | ENSESTT000000021468 | | 10 | 74600104 | 74601061 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-----------|----|----------|----------|
| A6 | ENST000000319786 | NM_152586 | 10 | 74601901 | 74621672 |
| A6 | ENSESTT00000021469 | | 10 | 74634518 | 74635149 |
| A6 | ENST000000318330 | MYOZ1 | 10 | 74736016 | 74746118 |
| A6 | ENST000000332382 | | 10 | 74736345 | 74742281 |
| A6 | ENST000000299404 | NM_024875 | 10 | 74749893 | 74755390 |
| A6 | ENST000000310381 | | 10 | 74778960 | 74802116 |
| A6 | ENSESTT00000021498 | | 10 | 74787103 | 74799146 |
| A6 | ENSESTT00000021470 | | 10 | 74834923 | 74835765 |
| A6 | ENST000000333366 | | 10 | 74836264 | 74838018 |
| A6 | ENST000000332341 | | 10 | 74836264 | 74838018 |
| A6 | ENSESTT00000021472 | | 10 | 74848734 | 74869952 |
| A6 | ENSESTT00000021471 | | 10 | 74848734 | 74875148 |
| A6 | ENSESTT00000021473 | | 10 | 74848778 | 74856191 |
| A6 | ENST000000313749 | SEC24C | 10 | 74851194 | 74875548 |
| A6 | ENSESTT00000021474 | | 10 | 74870160 | 74875148 |
| A6 | ENSESTT00000021475 | | 10 | 74872779 | 74875148 |
| A6 | ENSESTT00000021476 | | 10 | 74873363 | 74874530 |
| A6 | ENST000000326248 | NM_173540 | 10 | 74876477 | 74880577 |
| A6 | ENST000000299593 | Q96CJ6 | 10 | 74876947 | 74877339 |
| A6 | ENSESTT00000021478 | | 10 | 74877622 | 74880515 |
| A6 | ENSESTT00000021477 | | 10 | 74877622 | 74883436 |
| A6 | ENSESTT00000021479 | | 10 | 74886411 | 74888015 |
| A6 | ENST000000310182 | Q96BP2 | 10 | 74886424 | 74887727 |
| A6 | ENSESTT00000021480 | | 10 | 74886683 | 74888015 |
| A6 | ENST000000326185 | Q8NB34 | 10 | 74890240 | 74890617 |
| A6 | ENSESTT00000021481 | | 10 | 74893032 | 74894348 |
| A6 | ENSESTT00000021482 | | 10 | 74893456 | 74894353 |
| A6 | ENSESTT00000021483 | | 10 | 74893863 | 74894617 |
| A6 | ENST000000242558 | O94987 | 10 | 74894547 | 74903962 |
| A6 | ENSESTT00000021484 | | 10 | 74895484 | 74896595 |
| A6 | ENSESTT00000021485 | | 10 | 74897161 | 74898597 |
| A6 | ENST000000310153 | Q9H8F3 | 10 | 74897187 | 74906153 |
| A6 | ENSESTT00000021486 | | 10 | 74900732 | 74903751 |
| A6 | ENSESTT00000021487 | | 10 | 74900875 | 74903751 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|----|----------|----------|
| A6 | ENSESTT000000021488 | 10 | 74904375 | 74906153 |
| A6 | ENST000000325890 | 10 | 74904393 | 74905880 |
| A6 | ENSESTT000000021489 | 10 | 74905268 | 74906153 |
| A6 | ENST000000299641 | 10 | 74906812 | 74913092 |
| A6 | ENST000000309979 | 10 | 74915239 | 74916144 |
| A6 | ENST000000309967 | 10 | 74916017 | 74916304 |
| A6 | ENST000000322680 | 10 | 74916862 | 74978941 |
| A6 | ENST000000305762 | 10 | 74919376 | 74977443 |
| A6 | ENST000000322635 | 10 | 74919376 | 74978822 |
| A6 | ENST000000277853 | 10 | 74919376 | 74978822 |
| A6 | ENSESTT000000021493 | 10 | 74919386 | 74978883 |
| A6 | ENSESTT000000021490 | 10 | 74919386 | 74978935 |
| A6 | ENSESTT000000021497 | 10 | 74919578 | 74951712 |
| A6 | ENSESTT000000021495 | 10 | 74921388 | 74978836 |
| A6 | ENSESTT000000021494 | 10 | 74921388 | 74978883 |
| A6 | ENSESTT000000021491 | 10 | 74921388 | 74978935 |
| A6 | ENSESTT000000021496 | 10 | 74921432 | 74952651 |
| A6 | ENSESTT000000021492 | 10 | 74953412 | 74978891 |
| A6 | ENSESTT000000021181 | 10 | 75013538 | 75019592 |
| A6 | ENSESTT000000021180 | 10 | 75013538 | 75019765 |
| A6 | ENSESTT000000021179 | 10 | 75013538 | 75021858 |
| A6 | ENST000000317358 | 10 | 75014337 | 75016591 |
| A6 | ENSESTT000000021174 | 10 | 75015493 | 75019592 |
| A6 | ENSESTT000000021183 | 10 | 75015493 | 75019765 |
| A6 | ENSESTT000000021182 | 10 | 75015493 | 75021858 |
| A6 | ENST000000242464 | 10 | 75015909 | 75020926 |
| A6 | ENSESTT000000021176 | 10 | 75016395 | 75019765 |
| A6 | ENSESTT000000021175 | 10 | 75016395 | 75021858 |
| A6 | ENSESTT000000021178 | 10 | 75017648 | 75019765 |
| A6 | ENSESTT000000021177 | 10 | 75017648 | 75021858 |
| A6 | ENSESTT000000021185 | 10 | 75102475 | 75175189 |
| A6 | ENSESTT000000021184 | 10 | 75102475 | 75177160 |
| A6 | ENSESTT000000021186 | 10 | 75102477 | 75168197 |
| A6 | ENST000000277829 | 10 | 75102569 | 75222530 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-----------|----|----------|----------|
| A6 | ENST000000211998 | VCL | 10 | 75102569 | 75224513 |
| A6 | ENSESTT00000021187 | | 10 | 75147443 | 75177116 |
| A6 | ENSESTT00000021189 | | 10 | 75179224 | 75219023 |
| A6 | ENSESTT00000021188 | | 10 | 75179224 | 75223339 |
| A6 | ENSESTT00000021209 | | 10 | 75200527 | 75206788 |
| A6 | ENSESTT00000021191 | | 10 | 75201559 | 75219023 |
| A6 | ENSESTT00000021190 | | 10 | 75201559 | 75223339 |
| A6 | ENSESTT00000021192 | | 10 | 75218050 | 75223339 |
| A6 | ENSESTT00000021193 | | 10 | 75219116 | 75222883 |
| A6 | ENSESTT00000021208 | | 10 | 75222927 | 75224394 |
| A6 | ENST000000330581 | AP3M1 | 10 | 75226134 | 75255181 |
| A6 | ENSESTT00000021206 | | 10 | 75227787 | 75255426 |
| A6 | ENST000000323546 | NM_030970 | 10 | 75229527 | 75229598 |
| A6 | ENSESTT00000021207 | | 10 | 75233235 | 75234365 |
| A6 | ENSESTT00000021195 | | 10 | 75255568 | 75632868 |
| A6 | ENSESTT00000021194 | | 10 | 75255568 | 75813656 |
| A6 | ENSESTT00000021196 | | 10 | 75255596 | 75328956 |
| A6 | ENST000000286621 | ADK | 10 | 75255640 | 75812806 |
| A6 | ENSESTT00000021199 | | 10 | 75280904 | 75632868 |
| A6 | ENSESTT00000021198 | | 10 | 75280904 | 75704867 |
| A6 | ENSESTT00000021197 | | 10 | 75280904 | 75813656 |
| A6 | ENST000000330453 | | 10 | 75527848 | 75528380 |
| A6 | ENST000000326278 | | 10 | 75631945 | 75632449 |
| A6 | ENSESTT00000021205 | | 10 | 75903848 | 75958752 |
| A6 | ENSESTT00000021201 | | 10 | 75929925 | 75947950 |
| A6 | ENSESTT00000021200 | | 10 | 75929925 | 76076904 |
| A6 | ENST000000287239 | MYST4 | 10 | 75930980 | 76135407 |
| A6 | ENSESTT00000021203 | | 10 | 75930982 | 75947950 |
| A6 | ENSESTT00000021202 | | 10 | 75930982 | 76076904 |
| A6 | ENSESTT00000021204 | | 10 | 75931001 | 75947270 |
| A6 | ENSESTT00000021123 | | 10 | 76083627 | 76086278 |
| A6 | ENSESTT00000021143 | | 10 | 76124157 | 76126508 |
| A6 | ENSESTT00000021142 | | 10 | 76198793 | 76199990 |
| A6 | ENST000000308475 | | 10 | 76198802 | 76213537 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|----|----------|----------|
| A6 | ENSESTT000000021141 | 10 | 76198943 | 76200127 |
| A6 | ENSESTT000000021139 | 10 | 76202071 | 76213531 |
| A6 | ENSESTT000000021140 | 10 | 76208362 | 76213559 |
| A6 | ENST000000330673 | 10 | 76210030 | 76213518 |
| A6 | ENSESTT000000021124 | 10 | 76215992 | 76255437 |
| A6 | ENSESTT000000021138 | 10 | 76228974 | 76230298 |
| A6 | ENST000000287258 | 10 | 76254890 | 76280615 |
| A6 | ENSESTT000000021125 | 10 | 76280444 | 76281496 |
| A6 | ENSESTT000000021127 | 10 | 76314523 | 76322599 |
| A6 | ENSESTT000000021126 | 10 | 76314523 | 76335808 |
| A6 | ENST000000298468 | 10 | 76315209 | 76335638 |
| A6 | ENSESTT000000021128 | 10 | 76315395 | 76335808 |
| A6 | ENST000000304595 | 10 | 76315945 | 76335465 |
| A6 | ENSESTT000000021129 | 10 | 76333671 | 76335638 |
| A6 | ENSESTT000000021136 | 10 | 76338330 | 76339540 |
| A6 | ENSESTT000000021137 | 10 | 76338332 | 76339540 |
| A6 | ENSESTT000000021135 | 10 | 76338332 | 76339908 |
| A6 | ENST000000298482 | 10 | 76338434 | 76340289 |
| A6 | ENSESTT000000021134 | 10 | 76340085 | 76340318 |
| A6 | ENST000000308111 | 10 | 76502522 | 76506032 |
| A6 | ENSESTT000000021133 | 10 | 76504121 | 76505779 |
| A6 | ENSESTT000000021130 | 10 | 76505464 | 76511780 |
| A6 | ENST000000321905 | 10 | 76507413 | 76512179 |
| A6 | ENSESTT000000021131 | 10 | 76508372 | 76511814 |
| A6 | ENST000000260908 | 10 | 76683657 | 76683884 |
| A6 | ENSESTT000000021132 | 10 | 76875127 | 77140490 |
| A6 | ENST000000277847 | 10 | 77140367 | 77163144 |
| A6 | ENSESTT000000021106 | 10 | 77387031 | 77389445 |
| A6 | ENSESTT000000021100 | 10 | 77428760 | 77661738 |
| A6 | ENSESTT000000021101 | 10 | 77463793 | 77661593 |
| A6 | ENSESTT000000021098 | 10 | 77507582 | 77661714 |
| A6 | ENSESTT000000021099 | 10 | 77569175 | 77661701 |
| A6 | ENSESTT000000021105 | 10 | 77981962 | 77992271 |
| A6 | ENST000000331566 | 10 | 77982100 | 77982255 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--------|----|----------|----------|
| A6 | ENST00000286628 | KCNMA1 | 10 | 77991627 | 78214698 |
| A6 | ENSESTT00000021104 | | 10 | 77991650 | 78019414 |
| A6 | ENSESTT00000021102 | | 10 | 77992403 | 78006633 |
| A6 | ENSESTT00000021103 | | 10 | 77992437 | 78082885 |
| A6 | ENSESTT00000021145 | | 10 | 78009186 | 78053824 |
| A6 | ENSESTT00000021172 | | 10 | 78014424 | 78053629 |
| A6 | ENSESTT00000021173 | | 10 | 78018433 | 78049275 |
| A6 | ENSESTT00000021171 | | 10 | 78053673 | 78116388 |
| A6 | ENSESTT00000021170 | | 10 | 78078354 | 78123424 |
| A6 | ENSESTT00000021168 | | 10 | 78099639 | 78143996 |
| A6 | ENSESTT00000021169 | | 10 | 78116559 | 78143977 |
| A6 | ENSESTT00000021167 | | 10 | 78177554 | 78212924 |
| A6 | ENSESTT00000021166 | | 10 | 78189055 | 78287832 |
| A6 | ENSESTT00000021146 | | 10 | 78204890 | 78205770 |
| A6 | ENSESTT00000021147 | | 10 | 78252653 | 78254461 |
| A6 | ENSESTT00000021162 | | 10 | 78287850 | 78742046 |
| A6 | ENSESTT00000021165 | | 10 | 78686459 | 78723017 |
| A6 | ENSESTT00000021163 | | 10 | 78740556 | 78741848 |
| A6 | ENSESTT00000021164 | | 10 | 78740566 | 78741829 |
| A6 | ENST00000334073 | | 10 | 78836952 | 78838490 |
| A6 | ENST00000320599 | | 10 | 78884695 | 78886237 |
| A6 | ENST00000320511 | DLG5 | 10 | 78895154 | 78961260 |
| A6 | ENSESTT00000021157 | | 10 | 78896519 | 78910150 |
| A6 | ENSESTT00000021161 | | 10 | 78896672 | 78898481 |
| A6 | ENSESTT00000021158 | | 10 | 78896672 | 78910150 |
| A6 | ENSESTT00000021159 | | 10 | 78898010 | 78910150 |
| A6 | ENSESTT00000021160 | | 10 | 78899194 | 78910150 |
| A6 | ENSESTT00000021155 | | 10 | 78911119 | 78913967 |
| A6 | ENSESTT00000021156 | | 10 | 78911160 | 78912313 |
| A6 | ENSESTT00000021154 | | 10 | 78915532 | 78916696 |
| A6 | ENSESTT00000021153 | | 10 | 78920387 | 78923893 |
| A6 | ENSESTT00000021151 | | 10 | 78925896 | 78935239 |
| A6 | ENSESTT00000021152 | | 10 | 78925896 | 78935239 |
| A6 | ENSESTT00000021149 | | 10 | 78925896 | 78946262 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|----|----------|----------|
| A6 | ENSESTT00000021150 | 10 | 78925896 | 78946266 |
| A6 | ENSESTT00000021148 | 10 | 78948038 | 78958638 |
| A6 | ENST000000318641 | 10 | 79032042 | 79032499 |
| A6 | ENST000000277783 | 10 | 79080509 | 79133862 |
| A6 | ENSESTT00000021121 | 10 | 79081352 | 79090348 |
| A6 | ENSESTT00000021122 | 10 | 79086568 | 79089703 |
| A6 | ENSESTT00000021120 | 10 | 79104456 | 79128979 |
| A6 | ENSESTT00000021112 | 10 | 79138153 | 79141824 |
| A6 | ENSESTT00000021111 | 10 | 79138153 | 79141833 |
| A6 | ENSESTT00000021110 | 10 | 79138153 | 79144586 |
| A6 | ENSESTT00000021109 | 10 | 79138153 | 79145062 |
| A6 | ENSESTT00000021108 | 10 | 79138153 | 79153449 |
| A6 | ENST000000260896 | 10 | 79138226 | 79145063 |
| A6 | ENSESTT00000021114 | 10 | 79139712 | 79145062 |
| A6 | ENSESTT00000021113 | 10 | 79139712 | 79159037 |
| A6 | ENST000000311407 | 10 | 79193716 | 79194732 |
| A6 | ENSESTT00000021115 | 10 | 79353170 | 79457696 |
| A6 | ENSESTT00000021116 | 10 | 79371686 | 79382425 |
| A6 | ENSESTT00000021117 | 10 | 79371802 | 79434851 |
| A6 | ENSESTT00000021118 | 10 | 79398200 | 79405363 |
| A6 | ENSESTT00000021119 | 10 | 79800422 | 79801382 |
| A6 | ENSESTT00000021253 | 10 | 80160384 | 80173420 |
| A6 | ENSESTT00000021230 | 10 | 80244085 | 80395502 |
| A6 | ENST000000334512 | 10 | 80244114 | 80417109 |
| A6 | ENSESTT00000021231 | 10 | 80348029 | 80395502 |
| A6 | ENST000000277788 | 10 | 80348029 | 80417109 |
| A6 | ENSESTT00000021232 | 10 | 80410611 | 80417213 |
| A6 | ENSESTT00000021233 | 10 | 80451828 | 80458345 |
| A6 | ENST000000225174 | 10 | 80451837 | 80459684 |
| A6 | ENSESTT00000021234 | 10 | 80486687 | 80513633 |
| A6 | ENST000000298180 | 10 | 80486688 | 80549986 |
| A6 | ENSESTT00000021252 | 10 | 80498696 | 80549886 |
| A6 | ENSESTT00000021251 | 10 | 80608432 | 80610640 |
| A6 | ENST000000329262 | 10 | 80617009 | 80617473 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--------|----|----------|----------|
| A6 | ENST000000328784 | SFTPA2 | 10 | 80661568 | 80663842 |
| A6 | ENSESTT00000021246 | | 10 | 80661840 | 80664756 |
| A6 | ENSESTT00000021247 | | 10 | 80661841 | 80664756 |
| A6 | ENSESTT00000021248 | | 10 | 80661863 | 80664744 |
| A6 | ENSESTT00000021245 | | 10 | 80663244 | 80984138 |
| A6 | ENST000000334432 | SFTPA1 | 10 | 80715314 | 80718472 |
| A6 | ENST000000329658 | | 10 | 80716284 | 80718472 |
| A6 | ENSESTT00000021235 | | 10 | 80718201 | 81039562 |
| A6 | ENSESTT00000021237 | | 10 | 80718531 | 81039746 |
| A6 | ENSESTT00000021238 | | 10 | 80718764 | 81039731 |
| A6 | ENSESTT00000021241 | | 10 | 80718926 | 80719667 |
| A6 | ENSESTT00000021239 | | 10 | 80719112 | 81039731 |
| A6 | ENSESTT00000021240 | | 10 | 80719228 | 81039731 |
| A6 | ENSESTT00000021236 | | 10 | 80772270 | 81190839 |
| A6 | ENSESTT00000021250 | | 10 | 80789921 | 80795955 |
| A6 | ENST000000241878 | Q9H392 | 10 | 80852848 | 80853054 |
| A6 | ENSESTT00000021249 | | 10 | 80928323 | 80930532 |
| A6 | ENST000000333539 | | 10 | 80936971 | 80937273 |
| A6 | ENST000000242457 | SFTPA2 | 10 | 80981513 | 80983787 |
| A6 | ENSESTT00000021242 | | 10 | 80981785 | 80984701 |
| A6 | ENSESTT00000021243 | | 10 | 80981786 | 80984701 |
| A6 | ENSESTT00000021244 | | 10 | 80981808 | 80984689 |
| A6 | ENSESTT00000021401 | | 10 | 81035257 | 81038146 |
| A6 | ENST000000242455 | SFTPA1 | 10 | 81035260 | 81038418 |
| A6 | ENSESTT00000021402 | | 10 | 81035266 | 81038139 |
| A6 | ENSESTT00000021403 | | 10 | 81035780 | 81036737 |
| A6 | ENSESTT00000021455 | | 10 | 81038872 | 81039613 |
| A6 | ENSESTT00000021404 | | 10 | 81093936 | 81101184 |
| A6 | ENSESTT00000021454 | | 10 | 81110118 | 81116151 |
| A6 | ENSESTT00000021446 | | 10 | 81116552 | 81250849 |
| A6 | ENST000000335456 | | 10 | 81128338 | 81275386 |
| A6 | ENST000000334434 | Q9H392 | 10 | 81173024 | 81173230 |
| A6 | ENSESTT00000021451 | | 10 | 81190668 | 81230459 |
| A6 | ENSESTT00000021447 | | 10 | 81190746 | 81250724 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|----|----------|----------|
| A6 | ENSESTT000000021453 | 10 | 81202274 | 81202689 |
| A6 | ENSESTT000000021448 | 10 | 81226317 | 81250724 |
| A6 | ENSESTT000000021450 | 10 | 81228390 | 81238987 |
| A6 | ENSESTT000000021452 | 10 | 81228392 | 81230459 |
| A6 | ENSESTT000000021449 | 10 | 81228392 | 81250724 |
| A6 | ENST000000305740 | 10 | 81268629 | 81274246 |
| A6 | ENST000000298189 | 10 | 81268792 | 81275205 |
| A6 | ENSESTT000000021445 | 10 | 81294428 | 81295438 |
| A6 | ENSESTT000000021405 | 10 | 81329237 | 81332141 |
| A6 | ENST000000312535 | 10 | 81344660 | 81347359 |
| A6 | ENSESTT000000021406 | 10 | 81346244 | 81347451 |
| A6 | ENSESTT000000021444 | 10 | 81362073 | 81373418 |
| A6 | ENSESTT000000021443 | 10 | 81362073 | 81373430 |
| A6 | ENST000000256035 | 10 | 81362085 | 81373438 |
| A6 | ENST000000302577 | 10 | 81456301 | 81456726 |
| A6 | ENSESTT000000021407 | 10 | 81503006 | 81516880 |
| A6 | ENSESTT000000021408 | 10 | 81503009 | 81516880 |
| A6 | ENST000000256052 | 10 | 81503033 | 81516880 |
| A6 | ENSESTT000000021409 | 10 | 81503580 | 81516880 |
| A6 | ENSESTT000000021410 | 10 | 81506036 | 81510774 |
| A6 | ENSESTT000000021411 | 10 | 81506170 | 81515572 |
| A6 | ENSESTT000000021412 | 10 | 81506477 | 81516880 |
| A6 | ENSESTT000000021442 | 10 | 81515319 | 81516192 |
| A6 | ENSESTT000000021413 | 10 | 81557063 | 81569687 |
| A6 | ENSESTT000000021414 | 10 | 81566481 | 81568673 |
| A6 | ENSESTT000000021415 | 10 | 81568379 | 81569370 |
| A6 | ENSESTT000000021416 | 10 | 81579472 | 81582085 |
| A6 | ENSESTT000000021426 | 10 | 81579821 | 81582361 |
| A6 | ENSESTT000000021430 | 10 | 81579821 | 81583460 |
| A6 | ENSESTT000000021429 | 10 | 81579821 | 81587747 |
| A6 | ENSESTT000000021427 | 10 | 81579932 | 81590496 |
| A6 | ENST000000265447 | 10 | 81580186 | 81597194 |
| A6 | ENSESTT000000021428 | 10 | 81583422 | 81587941 |
| A6 | ENSESTT000000021440 | 10 | 81591229 | 81629900 |

Q96LH7

SFTPD

NM_025125

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TABLE 3 (Continued)

| | | | | |
|----|---------------------|----|----------|----------|
| A6 | ENSESTT00000021441 | 10 | 81593529 | 81597209 |
| A6 | ENST000000316258 | 10 | 81671552 | 81672016 |
| A6 | ENST000000280867 | 10 | 81696158 | 81713756 |
| A6 | ENSESTT00000021439 | 10 | 81697070 | 81697478 |
| A6 | ENSESTT00000021438 | 10 | 81697983 | 81699025 |
| A6 | ENSESTT00000021437 | 10 | 81700853 | 81713692 |
| A6 | ENSESTT00000021435 | 10 | 81700889 | 81714017 |
| A6 | ENSESTT00000021436 | 10 | 81705012 | 81714017 |
| A6 | ENSESTT00000021433 | 10 | 81760462 | 81781086 |
| A6 | ENST000000302526 | 10 | 81762785 | 81776934 |
| A6 | ENSESTT00000021434 | 10 | 81762846 | 81781047 |
| A6 | ENSESTT00000021417 | 10 | 81781106 | 81787306 |
| A6 | ENST000000316132 | 10 | 81781135 | 81792406 |
| A6 | ENSESTT00000021418 | 10 | 81787282 | 81791494 |
| A6 | ENSESTT00000021419 | 10 | 81832162 | 81856971 |
| A6 | ENSESTT00000021420 | 10 | 81832829 | 81856971 |
| A6 | ENSESTT00000021421 | 10 | 81832918 | 81856971 |
| A6 | ENSESTT00000021422 | 10 | 81838176 | 81856971 |
| A6 | ENST000000241895 | 10 | 81838189 | 81856968 |
| A6 | ENST000000312169 | 10 | 81913567 | 81942309 |
| A6 | ENST000000316064 | 10 | 81913567 | 81945181 |
| A6 | ENST000000265450 | 10 | 81913567 | 81946237 |
| A6 | ENSESTT00000021423 | 10 | 81913573 | 81947518 |
| A6 | ENSESTT00000021432 | 10 | 81939416 | 81943437 |
| A6 | ENSESTT00000021424 | 10 | 81940535 | 81942599 |
| A6 | ENSESTT00000021425 | 10 | 81940630 | 81956185 |
| A6 | ENSESTT00000021431 | 10 | 81953930 | 81960275 |
| A6 | ENST000000329171 | 10 | 81959343 | 81959717 |
| A6 | ENST000000313455 | 10 | 82067342 | 82068641 |
| A6 | ENSESTT00000021107 | 10 | 82074130 | 82078067 |
| A7 | OTTHUMT00007008148 | 7 | 71452603 | 71709685 |
| A7 | ENSESTT000000039973 | 7 | 71571787 | 71621457 |
| A7 | OTTHUMT00007007334 | 7 | 71599963 | 71600172 |
| A7 | ENST000000265301 | 7 | 71605907 | 71606016 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|------------|---|----------|----------|
| A7 | OTTHUMT00007007336 | Hs_7_c1066 | 7 | 71645929 | 71646324 |
| A7 | ENSESTT00000039972 | | 7 | 71654577 | 71698179 |
| A7 | ENSESTT00000039971 | | 7 | 71689895 | 71710894 |
| A7 | ENSESTT00000039970 | | 7 | 71709544 | 71710900 |
| A7 | ENSESTT00000039903 | | 7 | 71712159 | 71716707 |
| A7 | ENSESTT00000039904 | | 7 | 71712178 | 71714460 |
| A7 | OTTHUMT00007006933 | LOC155370 | 7 | 71712203 | 71716703 |
| A7 | ENSESTT00000039905 | | 7 | 71712367 | 71716710 |
| A7 | OTTHUMT00007007337 | Hs_7_c1068 | 7 | 71746587 | 71753122 |
| A7 | ENSESTT00000039948 | | 7 | 71746639 | 71904642 |
| A7 | OTTHUMT00007007338 | Hs_7_c1069 | 7 | 71747922 | 71748002 |
| A7 | ENST00000323915 | | 7 | 71749050 | 71751686 |
| A7 | ENSESTT00000039906 | | 7 | 71762023 | 71773321 |
| A7 | ENSESTT00000039911 | | 7 | 71762045 | 71763010 |
| A7 | ENSESTT00000039910 | | 7 | 71762045 | 71822067 |
| A7 | ENSESTT00000039909 | | 7 | 71762045 | 71822522 |
| A7 | ENSESTT00000039908 | | 7 | 71762045 | 72120515 |
| A7 | ENSESTT00000039907 | | 7 | 71762045 | 72121873 |
| A7 | OTTHUMT00007006851 | POM121 | 7 | 71762053 | 71834096 |
| A7 | ENST00000275580 | O95746 | 7 | 71762053 | 71922346 |
| A7 | ENSESTT00000039912 | | 7 | 71773689 | 71796697 |
| A7 | ENST00000257622 | POM121 | 7 | 71809068 | 71828890 |
| A7 | ENSESTT00000039913 | | 7 | 71823101 | 72121996 |
| A7 | ENSESTT00000039914 | | 7 | 71823135 | 71830954 |
| A7 | ENSESTT00000039938 | | 7 | 71830947 | 71831469 |
| A7 | ENSESTT00000039937 | | 7 | 71830947 | 71831838 |
| A7 | ENSESTT00000039935 | | 7 | 71830947 | 71831880 |
| A7 | ENSESTT00000039933 | | 7 | 71830947 | 71831893 |
| A7 | ENSESTT00000039931 | | 7 | 71830947 | 71833202 |
| A7 | ENSESTT00000039929 | | 7 | 71830947 | 71837351 |
| A7 | ENSESTT00000039926 | | 7 | 71830947 | 71837371 |
| A7 | ENSESTT00000039925 | | 7 | 71830947 | 71837390 |
| A7 | ENSESTT00000039936 | | 7 | 71830954 | 71831875 |
| A7 | ENSESTT00000039934 | | 7 | 71830954 | 71831893 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|---|------------------|----------|
| A7 | ENSESTT00000039932 | 7 | 71830954 | 71833209 |
| A7 | ENSESTT00000039930 | 7 | 71830954 | 71837351 |
| A7 | ENSESTT00000039927 | 7 | 71830954 | 71837371 |
| A7 | OTTHUMT00007007028 | 7 | WBSCR20A.1 | 71837376 |
| A7 | ENST000000330999 | 7 | NM_148936 | 71832800 |
| A7 | ENST000000222857 | 7 | NM_149379 | 71834307 |
| A7 | ENSESTT00000039923 | 7 | | 71831952 |
| A7 | ENSESTT00000039928 | 7 | | 71832127 |
| A7 | ENSESTT00000039924 | 7 | | 71836013 |
| A7 | ENST000000285805 | 7 | Q86UV6 | 71842133 |
| A7 | ENSESTT00000039939 | 7 | | 71842201 |
| A7 | OTTHUMT00007006839 | | mfhmh_h 70400969 | |
| | | | _71300968_m | |
| | | | _133605736_13 | |
| A7 | ENSESTT00000039940 | 7 | 71842530 | 71848805 |
| A7 | ENSESTT00000039915 | 7 | 71848707 | 72154649 |
| A7 | ENST000000335315 | 7 | 71851502 | 71854934 |
| A7 | OTTHUMT00007007357 | 7 | 71852127 | 71852366 |
| A7 | OTTHUMT00007007220 | 7 | 71852462 | 71854375 |
| A7 | ENST000000305954 | 7 | 71857195 | 71882155 |
| A7 | ENSESTT00000039969 | 7 | 71857213 | 71882155 |
| A7 | ENSESTT00000039916 | 7 | 71876851 | 71877435 |
| A7 | ENSESTT00000039962 | 7 | 71877080 | 72107101 |
| A7 | ENSESTT00000039963 | 7 | 71880796 | 71888562 |
| A7 | ENSESTT00000039949 | 7 | 71880796 | 71888562 |
| A7 | ENSESTT00000039950 | 7 | 71880796 | 71888584 |
| A7 | ENSESTT00000039964 | 7 | 71881128 | 71888562 |
| A7 | ENSESTT00000039965 | 7 | 71881128 | 71888562 |
| A7 | ENSESTT00000039951 | 7 | 71881128 | 71888584 |
| A7 | ENSESTT00000039952 | 7 | 71881128 | 71888584 |
| A7 | ENSESTT00000039953 | 7 | 71881128 | 71888584 |
| A7 | ENSESTT00000039966 | 7 | 71881144 | 71888562 |
| A7 | ENSESTT00000039954 | 7 | 71881144 | 71888584 |
| A7 | ENSESTT00000039955 | 7 | 71881144 | 71888584 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--------------------|---|----------|----------|
| A7 | ENSESTT00000039956 | | 7 | 71881144 | 71888584 |
| A7 | ENSESTT00000039957 | | 7 | 71881144 | 71888584 |
| A7 | ENSESTT00000039967 | | 7 | 71881902 | 71888562 |
| A7 | ENSESTT00000039958 | | 7 | 71881902 | 71888584 |
| A7 | ENSESTT00000039959 | | 7 | 71881902 | 71888584 |
| A7 | ENSESTT00000039960 | | 7 | 71882400 | 71888584 |
| A7 | ENSESTT00000039961 | | 7 | 71882400 | 71888584 |
| A7 | ENSESTT00000039968 | | 7 | 71882996 | 71888562 |
| A7 | OTTHUMT00007007358 | Hs_7_c1079 | 7 | 71888246 | 71931788 |
| A7 | ENSESTT00000039917 | | 7 | 71888736 | 71922142 |
| A7 | ENSESTT00000039918 | | 7 | 71888768 | 71932926 |
| A7 | ENSESTT00000039920 | | 7 | 71888780 | 71904881 |
| A7 | ENSESTT00000039919 | | 7 | 71888780 | 71932926 |
| A7 | OTTHUMT00007006363 | mbhmh_gw1304124 | | | |
| | | .71119255.71153128 | | | |
| | | .3.2e-3 | | | |
| A7 | ENSESTT00000039921 | | 7 | 71892093 | 71895794 |
| A7 | ENST00000334824 | | 7 | 71894107 | 71932926 |
| A7 | ENSESTT00000039944 | Q86WY7 | 7 | 71902561 | 71908486 |
| A7 | ENSESTT00000039943 | | 7 | 71903628 | 71905036 |
| A7 | ENSESTT00000039947 | | 7 | 71904798 | 71932687 |
| A7 | ENSESTT00000039946 | | 7 | 71908198 | 71909384 |
| A7 | ENSESTT00000039945 | | 7 | 71910560 | 71912409 |
| A7 | ENST00000323689 | | 7 | 71918103 | 71919942 |
| A7 | ENST00000306533 | | 7 | 71920032 | 71931791 |
| A7 | ENST00000335506 | PMS2L5 | 7 | 71922114 | 71931791 |
| A7 | ENSESTT00000039942 | Q86WY7 | 7 | 71930603 | 71936531 |
| A7 | OTTHUMT00007006797 | mfhmh_H_NH0396K03 | 7 | 71931673 | 71933081 |
| | | _F218045.fgenes2.5 | 7 | | |
| A7 | ENSESTT00000039941 | | 7 | 71931784 | 71940793 |
| A7 | ENSESTT00000039922 | | 7 | 71936243 | 71937429 |
| A7 | OTTHUMT00007007381 | | 7 | 71981407 | 72009414 |
| A7 | ENSESTT00000041207 | Hs_7_c1083 | 7 | 72001548 | 72031575 |
| A7 | ENSESTT00000041210 | | 7 | 72001575 | 72012822 |
| | | | 7 | 72016228 | 72028278 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|------------------|----------|----------|
| A7 | ENSESTT000000041209 | 7 | 72016228 | 72031964 |
| A7 | ENSESTT000000041208 | 7 | 72016228 | 72032675 |
| A7 | ENSESTT000000041225 | 7 | 72016228 | 72032723 |
| A7 | ENSESTT000000041224 | 7 | 72016228 | 72032724 |
| A7 | ENSESTT000000041215 | 7 | 72017507 | 72028278 |
| A7 | ENSESTT000000041214 | 7 | 72017507 | 72031964 |
| A7 | ENSESTT000000041213 | 7 | 72017507 | 72032675 |
| A7 | ENSESTT000000041212 | 7 | 72017507 | 72032723 |
| A7 | ENSESTT000000041211 | 7 | 72017507 | 72032724 |
| A7 | ENSESTT000000041220 | 7 | 72018632 | 72028278 |
| A7 | ENSESTT000000041219 | 7 | 72018632 | 72031964 |
| A7 | ENSESTT000000041218 | 7 | 72018632 | 72032675 |
| A7 | ENSESTT000000041217 | 7 | 72018632 | 72032723 |
| A7 | ENSESTT000000041216 | 7 | 72018632 | 72032724 |
| A7 | ENSESTT000000041221 | 7 | 72020761 | 72028278 |
| A7 | ENSESTT000000041222 | 7 | 72028242 | 72032724 |
| A7 | ENSESTT000000041223 | 7 | 72029512 | 72032724 |
| A7 | ENSESTT000000041228 | 7 | 72046727 | 72056376 |
| A7 | ENSESTT000000041226 | 7 | 72046727 | 72062034 |
| A7 | ENSESTT000000041227 | 7 | 72046727 | 72062034 |
| A7 | OTTHUMT00007006731 | NCF1.1 | 72046768 | 72062076 |
| A7 | ENSESTT000000041229 | 7 | 72046771 | 72056068 |
| A7 | ENST00000330925 | 7 | 72046778 | 72061921 |
| A7 | ENSESTT000000041230 | 7 | 72057999 | 72062076 |
| A7 | ENSESTT000000041231 | 7 | 72058029 | 72062076 |
| A7 | ENST00000297906 | 7 | 72069401 | 72070888 |
| A7 | ENSESTT000000041281 | 7 | 72077500 | 72079722 |
| A7 | OTTHUMT00007008151 | Hs_7_c5085 | 72085452 | 72106243 |
| A7 | OTTHUMT00007006556 | mbhnh_h_71200968 | | |
| | | _72100967_m | | |
| | | _133605736_13 | | |
| | | WBSCR20A.2 | | |
| | | WBSCR20A | | |
| A7 | ENST00000308082 | 7 | 72111678 | 72127258 |
| A7 | OTTHUMT00007007030 | 7 | 72119594 | 72129318 |
| A7 | ENST00000310326 | 7 | 72129323 | 72134901 |
| | | 7 | 72129324 | 72134920 |

TABLE 3 (Continued)

| | | | | | | |
|----|---------------------|--|------------------|---|----------|----------|
| A7 | ENSESTT000000041279 | | | 7 | 72129920 | 72134917 |
| A7 | ENSESTT000000041278 | | | 7 | 72130393 | 72133598 |
| A7 | ENSESTT000000041280 | | | 7 | 72130841 | 72134862 |
| A7 | ENST00000333149 | | NM_178125 | 7 | 72138632 | 72154182 |
| A7 | OTTHUMT00007007384 | | Hs_7_c1089 | 7 | 72139056 | 72150837 |
| A7 | ENSESTT000000041277 | | | 7 | 72139434 | 72143038 |
| A7 | ENSESTT000000041276 | | | 7 | 72139434 | 72144953 |
| A7 | ENSESTT000000041275 | | | 7 | 72139434 | 72151653 |
| A7 | OTTHUMT00007007413 | | Hs_7_c1090 | 7 | 72140207 | 72141310 |
| A7 | ENST00000252037 | | FKBP6 | 7 | 72154529 | 72168994 |
| A7 | OTTHUMT00007006557 | | mbhmh_h_71200968 | | | |
| | | | 72100967_m | | | |
| | | | 133605736_13 | | | |
| A7 | ENSESTT000000041233 | | | 7 | 72154529 | 72168994 |
| A7 | ENSESTT000000041232 | | | 7 | 72156394 | 72184728 |
| A7 | ENSESTT000000041234 | | | 7 | 72156394 | 72184733 |
| A7 | OTTHUMT00007006375 | | FZD9 | 7 | 72157790 | 72168998 |
| A7 | ENST00000265756 | | BAZ1B | 7 | 72260410 | 72262589 |
| A7 | OTTHUMT00007007171 | | BAZ1B | 7 | 72266830 | 72348646 |
| A7 | ENSESTT000000041274 | | | 7 | 72266830 | 72348712 |
| A7 | ENSESTT000000041273 | | | 7 | 72268726 | 72273720 |
| A7 | ENSESTT000000041272 | | | 7 | 72277272 | 72303421 |
| A7 | ENSESTT000000041271 | | | 7 | 72304601 | 72348524 |
| A7 | ENSESTT000000041266 | | | 7 | 72304601 | 72348733 |
| A7 | ENST00000223368 | | | 7 | 72362783 | 72383988 |
| A7 | OTTHUMT00007006736 | | BCL7B | 7 | 72362783 | 72384121 |
| A7 | ENSESTT000000041269 | | BCL7B | 7 | 72362783 | 72384121 |
| A7 | ENSESTT000000041264 | | | 7 | 72363456 | 72383648 |
| A7 | ENSESTT000000041263 | | | 7 | 72363456 | 72384093 |
| A7 | ENSESTT000000041267 | | | 7 | 72363469 | 72384120 |
| A7 | ENSESTT000000041267 | | | 7 | 72363476 | 72383988 |
| A7 | ENSESTT000000041270 | | | 7 | 72363528 | 72383646 |
| A7 | ENSESTT000000041268 | | | 7 | 72363620 | 72383668 |
| A7 | ENSESTT000000041265 | | | 7 | 72363620 | 72384016 |
| A7 | ENSESTT000000041262 | | | 7 | 72363722 | 72384156 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|------------------|---|----------|----------|
| A7 | OTTHUMT000007006751 | TBL2 | 7 | 72396096 | 72405069 |
| A7 | ENST00000275621 | TBL2 | 7 | 72396099 | 72405018 |
| A7 | ENSESTT00000041260 | | 7 | 72396857 | 72405034 |
| A7 | ENSESTT00000041261 | | 7 | 72396857 | 72405034 |
| A7 | ENST00000305632 | NM_032988 | 7 | 72403031 | 72404976 |
| A7 | ENST00000243720 | WBSR14 | 7 | 72419621 | 72450967 |
| A7 | OTTHUMT00007006613 | WBSR14 | 7 | 72419621 | 72450967 |
| A7 | ENSESTT00000041259 | | 7 | 72420796 | 72422929 |
| A7 | ENST00000313375 | WBSR14 | 7 | 72422850 | 72450919 |
| A7 | ENSESTT00000041257 | | 7 | 72424072 | 72450970 |
| A7 | ENSESTT00000041258 | | 7 | 72433738 | 72450946 |
| A7 | OTTHUMT00007007252 | mbhmh_h_71200968 | | | |
| | | 72100967_m_ | | | |
| | | 133605736_13 | | | |
| | | WBSR24 | 7 | 72478242 | 72507686 |
| A7 | ENST00000324941 | | 7 | 72494272 | 72497803 |
| A7 | ENSESTT00000041235 | | 7 | 72494282 | 72497608 |
| A7 | OTTHUMT00007006614 | WBSR18 | 7 | 72508698 | 72509869 |
| A7 | ENST00000324842 | WBSR18 | 7 | 72509170 | 72509850 |
| A7 | ENSESTT00000041236 | | 7 | 72510028 | 72524583 |
| A7 | ENST00000265758 | WBSR22 | 7 | 72510034 | 72524313 |
| A7 | OTTHUMT00007006630 | WBSR22 | 7 | 72510034 | 72524639 |
| A7 | ENSESTT00000041237 | | 7 | 72510055 | 72524583 |
| A7 | ENSESTT00000041238 | | 7 | 72510072 | 72524583 |
| A7 | ENSESTT00000041239 | | 7 | 72510232 | 72519061 |
| A7 | ENSESTT00000041240 | | 7 | 72517339 | 72524579 |
| A7 | ENSESTT00000041241 | | 7 | 72519822 | 72524424 |
| A7 | ENSESTT00000041242 | | 7 | 72520410 | 72524569 |
| A7 | ENST00000222812 | STX1A | 7 | 72525637 | 72546059 |
| A7 | OTTHUMT00007006498 | STX1A | 7 | 72525637 | 72546086 |
| A7 | ENSESTT00000041256 | | 7 | 72526715 | 72530923 |
| A7 | ENSESTT00000041252 | | 7 | 72526715 | 72546118 |
| A7 | ENSESTT00000041253 | | 7 | 72526718 | 72546118 |
| A7 | ENSESTT00000041254 | | 7 | 72530608 | 72546099 |
| A7 | ENSESTT00000041255 | | 7 | 72531576 | 72546069 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|---------------------|---|----------|----------|
| A7 | OTTHUMT00007006628 | WBSCR21 | 7 | 72562521 | 72565258 |
| A7 | ENST00000322862 | NM_148914 | 7 | 72562544 | 72565281 |
| A7 | ENST00000222800 | WBSCR21 | 7 | 72562986 | 72565224 |
| A7 | OTTHUMT00007006748 | CLDN3 | 7 | 72595424 | 72596673 |
| A7 | ENST00000297926 | CLDN3 | 7 | 72595814 | 72596476 |
| A7 | OTTHUMT00007006403 | nh_nm_gil18182840 | 7 | 72655639 | 72656526 |
| A7 | OTTHUMT00007006749 | CLDN4 | 7 | 72657433 | 72659112 |
| A7 | ENSESTT00000041251 | | 7 | 72661015 | 72666499 |
| A7 | ENST00000297873 | NM_152559 | 7 | 72661023 | 72668960 |
| A7 | OTTHUMT00007007226 | mbhmh_nh_h_71200968 | | | |
| | | 72100967_m | | | |
| | | _132805737 | 7 | 72661138 | 72668567 |
| A7 | ENSESTT000000041243 | | 7 | 72687586 | 72692202 |
| A7 | ENST00000320531 | NM_182504 | 7 | 72687586 | 72692314 |
| A7 | OTTHUMT00007007227 | mbhmh_nh_h_71200968 | | | |
| | | 72100967_m | | | |
| | | _132805737 | 7 | 72691651 | 72707065 |
| A7 | ENSESTT000000041244 | | 7 | 72854539 | 72869441 |
| A7 | ENST00000320425 | ELN | 7 | 72854615 | 72895127 |
| A7 | ENST00000309678 | Q14235 | 7 | 72854615 | 72895127 |
| A7 | ENST00000320492 | Q8NBI4 | 7 | 72854615 | 72895127 |
| A7 | OTTHUMT00007006288 | ELN | 7 | 72854615 | 72895127 |
| A7 | ENST00000320399 | Q8N2G0 | 7 | 72854615 | 72896103 |
| A7 | ENST00000252034 | O15337 | 7 | 72861793 | 72887565 |
| A7 | ENSESTT000000041245 | | 7 | 72879278 | 72882774 |
| A7 | ENSESTT000000041246 | | 7 | 72883099 | 72889621 |
| A7 | ENSESTT000000041247 | | 7 | 72892119 | 72895391 |
| A7 | ENST00000265761 | LIMK1 | 7 | 72910253 | 72948951 |
| A7 | OTTHUMT00007006772 | LIMK1 | 7 | 72910253 | 72948951 |
| A7 | ENSESTT000000041248 | | 7 | 72919602 | 72925577 |
| A7 | ENSESTT000000041249 | | 7 | 72932555 | 72947826 |
| A7 | ENSESTT000000041250 | | 7 | 72938074 | 72947826 |
| A7 | ENSESTT000000036020 | | 7 | 73000780 | 73021942 |
| A7 | ENSESTT000000036019 | | 7 | 73000780 | 73023522 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|---|----------|----------|
| A7 | ENSESTT00000036021 | 7 | 73000783 | 73016740 |
| A7 | ENSESTT00000036016 | 7 | 73000792 | 73021897 |
| A7 | ENSESTT00000036017 | 7 | 73000792 | 73021897 |
| A7 | ENST00000265754 | 7 | 73000803 | 73023526 |
| A7 | OTTHUMT00007006349 | 7 | 73000803 | 73023526 |
| A7 | ENST00000265753 | 7 | 73000811 | 73021735 |
| A7 | ENSESTT00000036018 | 7 | 73000834 | 73023522 |
| A7 | ENSESTT00000036027 | 7 | 73036361 | 73046683 |
| A7 | ENST00000309368 | 7 | 73036372 | 73056254 |
| A7 | OTTHUMT00007006353 | 7 | 73036372 | 73056260 |
| A7 | ENSESTT00000036028 | 7 | 73036409 | 73047047 |
| A7 | ENSESTT00000036029 | 7 | 73036413 | 73055741 |
| A7 | ENSESTT00000036030 | 7 | 73036479 | 73055741 |
| A7 | ENSESTT00000036031 | 7 | 73036487 | 73056261 |
| A7 | ENSESTT00000036033 | 7 | 73041247 | 73055741 |
| A7 | ENSESTT00000036032 | 7 | 73041247 | 73056261 |
| A7 | ENSESTT00000036034 | 7 | 73042370 | 73055741 |
| A7 | ENST00000315652 | 7 | 73042403 | 73051169 |
| A7 | ENSESTT00000036035 | 7 | 73046885 | 73055741 |
| A7 | ENST00000055077 | 7 | 73057931 | 73080835 |
| A7 | OTTHUMT00007006563 | 7 | 73058100 | 73080829 |
| A7 | ENSESTT00000036108 | 7 | 73058332 | 73076209 |
| A7 | ENSESTT00000036107 | 7 | 73058332 | 73080717 |
| A7 | ENSESTT00000036106 | 7 | 73058332 | 73080816 |
| A7 | ENSESTT00000036105 | 7 | 73058332 | 73080827 |
| A7 | ENSESTT00000036103 | 7 | 73058332 | 73080835 |
| A7 | ENST00000275627 | 7 | 73058533 | 73080810 |
| A7 | ENSESTT00000036104 | 7 | 73058566 | 73080828 |
| A7 | OTTHUMT00007006304 | 7 | 73115902 | 73232362 |
| A7 | ENST00000275634 | 7 | 73143935 | 73227994 |
| A7 | ENST00000223398 | 7 | 73143974 | 73227994 |
| A7 | ENSESTT00000036039 | 7 | 73183000 | 73202399 |
| A7 | ENSESTT00000036040 | 7 | 73183883 | 73202625 |
| A7 | ENSESTT00000036041 | 7 | 73202736 | 73227995 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|---|----------|----------|
| A7 | ENSESTT00000036042 | 7 | 73203042 | 73227995 |
| A7 | ENSESTT00000036043 | 7 | 73212952 | 73230806 |
| A7 | OTTHUMT00007007106 | 7 | 73280217 | 73429013 |
| A7 | ENST00000265755 | 7 | 73334508 | 73428857 |
| A7 | ENSESTT00000036044 | 7 | 73346006 | 73381903 |
| A7 | ENSESTT00000036045 | 7 | 73350521 | 73364601 |
| A7 | OTTHUMT00007006631 | 7 | 73358718 | 73361335 |
| A7 | OTTHUMT00007007275 | 7 | 73360975 | 73361085 |
| A7 | ENSESTT00000036046 | 7 | 73373585 | 73429028 |
| A7 | ENSESTT00000036047 | 7 | 73427384 | 73429022 |
| A7 | ENSESTT00000036048 | 7 | 73484123 | 73517534 |
| A7 | OTTHUMT00007006793 | 7 | 73484127 | 73587111 |
| A7 | ENSESTT00000036102 | 7 | 73515362 | 73526731 |
| A7 | ENSESTT00000036051 | 7 | 73515542 | 73564552 |
| A7 | ENSESTT00000036052 | 7 | 73515542 | 73564552 |
| A7 | ENSESTT00000036049 | 7 | 73515542 | 73566495 |
| A7 | ENSESTT00000036050 | 7 | 73515542 | 73566495 |
| A7 | ENST000000324924 | 7 | 73515552 | 73585257 |
| A7 | ENST000000324906 | 7 | 73515552 | 73585257 |
| A7 | ENST000000324896 | 7 | 73515552 | 73587109 |
| A7 | ENSESTT00000036053 | 7 | 73517393 | 73555329 |
| A7 | ENSESTT00000036063 | 7 | 73569898 | 73575881 |
| A7 | ENSESTT00000036062 | 7 | 73569898 | 73581959 |
| A7 | ENSESTT00000036061 | 7 | 73569898 | 73585643 |
| A7 | ENSESTT00000036060 | 7 | 73569898 | 73586353 |
| A7 | ENSESTT00000036059 | 7 | 73569898 | 73586387 |
| A7 | ENSESTT00000036058 | 7 | 73569898 | 73586401 |
| A7 | ENSESTT00000036069 | 7 | 73571185 | 73575881 |
| A7 | ENSESTT00000036068 | 7 | 73571185 | 73581959 |
| A7 | ENSESTT00000036067 | 7 | 73571185 | 73585643 |
| A7 | ENSESTT00000036066 | 7 | 73571185 | 73586353 |
| A7 | ENSESTT00000036065 | 7 | 73571185 | 73586387 |
| A7 | ENSESTT00000036064 | 7 | 73571185 | 73586401 |
| A7 | ENSESTT00000036074 | 7 | 73572309 | 73581959 |

TABLE 3 (Continued)

| | | | | |
|----|--------------------|---------------------|----------|----------|
| A7 | ENSESTT00000036073 | 7 | 73572309 | 73585643 |
| A7 | ENSESTT00000036072 | 7 | 73572309 | 73586353 |
| A7 | ENSESTT00000036071 | 7 | 73572309 | 73586387 |
| A7 | ENSESTT00000036070 | 7 | 73572309 | 73586401 |
| A7 | ENSESTT00000036075 | 7 | 73574439 | 73581959 |
| A7 | ENSESTT00000036076 | 7 | 73583165 | 73585027 |
| A7 | ENSESTT00000036077 | 7 | 73584379 | 73586387 |
| A7 | OTTHUMT00007006732 | 7 | 73600398 | 73615746 |
| A7 | ENSESTT00000036086 | 7 | 73600417 | 73610049 |
| A7 | ENST00000289473 | 7 | 73600468 | 73615593 |
| A7 | ENSESTT00000036087 | 7 | 73611674 | 73615748 |
| A7 | ENSESTT00000036088 | 7 | 73611704 | 73615748 |
| A7 | ENSESTT00000036089 | 7 | 73614408 | 73615753 |
| A7 | ENST00000302215 | 7 | 73622573 | 73679914 |
| A7 | OTTHUMT00007006446 | | | |
| | | NM_032203 | | |
| | | mbhmh_H_NH0813J07 | | |
| | | _F171046.fgenes2.2 | 73623090 | 73663589 |
| A7 | ENSESTT00000036101 | 7 | 73659841 | 73679927 |
| A7 | OTTHUMT00007007215 | 7 | 73706764 | 73718764 |
| A7 | ENST00000308103 | 7 | 73710352 | 73713295 |
| A7 | OTTHUMT00007008153 | 7 | 73711129 | 73713351 |
| A7 | OTTHUMT00007007303 | 7 | 73718511 | 73733865 |
| A7 | ENST00000318547 | 7 | 73718985 | 73733868 |
| A7 | ENSESTT00000036090 | 7 | 73718990 | 73726032 |
| A7 | ENSESTT00000036091 | 7 | 73719013 | 73733949 |
| A7 | ENST00000318568 | 7 | 73722332 | 73729180 |
| A7 | ENSESTT00000036092 | 7 | 73726925 | 73728321 |
| A7 | ENST00000333385 | 7 | 73732679 | 73739325 |
| A7 | OTTHUMT00007006291 | 7 | 73733861 | 73770943 |
| A7 | ENST00000328350 | 7 | 73737708 | 73740340 |
| A7 | ENST00000330313 | 7 | 73791140 | 73844306 |
| A7 | ENST00000332301 | 7 | 73791172 | 73850892 |
| A7 | ENSESTT00000036097 | 7 | 73868813 | 73883752 |
| A7 | ENST00000329959 | 7 | 73869229 | 73901788 |
| A7 | ENSESTT00000036098 | 7 | 73882190 | 73901764 |
| | | WBSR16 | | |
| | | mfhmh_chr7.73.013.a | | |
| | | Q16673 | | |
| | | Q86WY7 | | |
| | | PMS2L5 | | |
| | | Hs_7_c5086 | | |
| | | Hs_7_c1127 | | |
| | | Q16673 | | |
| | | Q86WY7 | | |
| | | mfhmh_chr7.73.013.a | | |
| | | WBSR16 | | |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|-----------|---|----------|----------|
| A7 | ENSESTT000000036099 | | 7 | 73889107 | 73901764 |
| A7 | ENSESTT000000036100 | | 7 | 73892480 | 73901764 |
| A7 | ENST000000334260 | Q86WX4 | 7 | 73920467 | 73954376 |
| A7 | ENSESTT000000036093 | | 7 | 73920470 | 73940594 |
| A7 | ENST000000312575 | NM_032203 | 7 | 73962893 | 73977192 |
| A7 | ENSESTT000000036094 | | 7 | 73966809 | 73969279 |
| A7 | ENST000000297905 | | 7 | 73984689 | 73999836 |
| A7 | ENSESTT000000036095 | | 7 | 73990260 | 73999885 |
| A7 | ENSESTT000000036096 | | 7 | 73990542 | 73999843 |
| A7 | ENSESTT000000037870 | | 7 | 74013902 | 74027990 |
| A7 | ENSESTT000000037865 | | 7 | 74013902 | 74029114 |
| A7 | ENSESTT000000037876 | | 7 | 74013902 | 74030393 |
| A7 | ENSESTT000000037871 | | 7 | 74013903 | 74027990 |
| A7 | ENSESTT000000037866 | | 7 | 74013903 | 74029114 |
| A7 | ENSESTT000000037877 | | 7 | 74013903 | 74030393 |
| A7 | ENSESTT000000037872 | | 7 | 74013951 | 74027990 |
| A7 | ENSESTT000000037867 | | 7 | 74013951 | 74029114 |
| A7 | ENSESTT000000037878 | | 7 | 74013951 | 74030393 |
| A7 | ENSESTT000000037873 | | 7 | 74014662 | 74027990 |
| A7 | ENSESTT000000037868 | | 7 | 74014662 | 74029114 |
| A7 | ENSESTT000000037879 | | 7 | 74014662 | 74030393 |
| A7 | ENSESTT000000037875 | | 7 | 74018346 | 74025862 |
| A7 | ENSESTT000000037874 | | 7 | 74018346 | 74027990 |
| A7 | ENSESTT000000037869 | | 7 | 74018346 | 74029114 |
| A7 | ENSESTT000000037880 | | 7 | 74018346 | 74030393 |
| A7 | ENSESTT000000037864 | | 7 | 74033799 | 74065179 |
| A7 | ENST000000335657 | Q86WY7 | 7 | 74111817 | 74114021 |
| A7 | ENSESTT000000037828 | | 7 | 74114121 | 74528229 |
| A7 | ENSESTT000000037860 | | 7 | 74114936 | 74600365 |
| A7 | ENST000000329909 | PMS2L5 | 7 | 74115017 | 74124654 |
| A7 | ENST000000311576 | | 7 | 74115017 | 74126741 |
| A7 | ENSESTT000000037831 | | 7 | 74378046 | 74402224 |
| A7 | ENSESTT000000037829 | | 7 | 74386841 | 74402224 |
| A7 | ENSESTT000000037830 | | 7 | 74400341 | 74402224 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|--|---|----------|----------|
| A7 | ENSESTT000000037832 | | 7 | 74412873 | 74413761 |
| A7 | ENSESTT000000037833 | | 7 | 74415176 | 74417728 |
| A7 | ENST000000317042 | Q9P1E6 | 7 | 74415789 | 74416214 |
| A7 | OTTHUMT00007006787 | mbhmh_h_72800966_ 73394042_m_ 132005738_l3 | 7 | | |
| A7 | ENST000000311251 | | 7 | 74418388 | 74470222 |
| A7 | OTTHUMT00007007356 | Hs_7_c1145 | 7 | 74419694 | 74479430 |
| A7 | ENST000000333996 | Q86WY7 | 7 | 74523575 | 74584324 |
| A7 | ENST000000335396 | Q86WY7 | 7 | 74524542 | 74556308 |
| A7 | ENST000000302439 | PMS2L6 | 7 | 74526082 | 74528285 |
| A7 | ENSESTT000000037834 | | 7 | 74526852 | 74541042 |
| A7 | ENSESTT000000037862 | | 7 | 74528385 | 74556252 |
| A7 | ENST000000311139 | PMS2L5 | 7 | 74529200 | 74566962 |
| A7 | ENST000000314850 | | 7 | 74529281 | 74538934 |
| A7 | OTTHUMT00007008169 | Hs_7_c5090 | 7 | 74529281 | 74541015 |
| A7 | ENSESTT000000037861 | | 7 | 74529284 | 74600754 |
| A7 | ENST000000251624 | PMS2L6 | 7 | 74538952 | 74567012 |
| A7 | ENSESTT000000037835 | | 7 | 74554875 | 74569067 |
| A7 | ENST000000305928 | | 7 | 74556408 | 74584271 |
| A7 | ENST000000335010 | | 7 | 74557304 | 74569040 |
| A7 | ENSESTT000000037836 | Q86WY7 | 7 | 74582125 | 74584327 |
| A7 | ENSESTT000000037863 | | 7 | 74584427 | 74743294 |
| A7 | ENST000000310939 | | 7 | 74585242 | 74594942 |
| A7 | ENSESTT000000037837 | | 7 | 74585323 | 74600345 |
| A7 | ENSESTT000000037838 | | 7 | 74600539 | 74603386 |
| A7 | OTTHUMT00007008170 | Hs_7_c5091 | 7 | 74600635 | 74607984 |
| A7 | ENST000000325462 | NM_018991 | 7 | 74605989 | 74608444 |
| A7 | OTTHUMT00007007218 | DKFZP434A0131.2 | 7 | 74606045 | 74609003 |
| A7 | ENSESTT000000037840 | | 7 | 74606957 | 74631908 |
| A7 | ENSESTT000000037839 | | 7 | 74607712 | 74637304 |
| A7 | ENSESTT000000037841 | | 7 | 74607712 | 74640405 |
| A7 | ENST000000275590 | Q8WW08 | 7 | 74611418 | 74612259 |
| A7 | ENSESTT000000037859 | | 7 | 74633749 | 74636644 |
| | | | 7 | 74634716 | 74636774 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|---|---|----------|----------|
| A7 | OTTHUMT000007006277 | mbhnh_h_73557902 74457901_m 133948896_13 | 7 | 74634728 | 74636644 |
| A7 | ENST000000323819 | Q86UV7 | 7 | 74636992 | 74646977 |
| A7 | OTTHUMT000007006661 | mfhnh_h_73557902_ 74457901_m 133948896_13 | 7 | 74640307 | 74649026 |
| A7 | ENSESTT00000037842 | | 7 | 74640495 | 74645112 |
| A7 | ENSESTT00000037843 | | 7 | 74651721 | 74653100 |
| A7 | OTTHUMT000007007377 | Hs_7_c1152 | 7 | 74651740 | 74657781 |
| A7 | ENSESTT00000037844 | | 7 | 74651742 | 74656591 |
| A7 | ENSESTT00000037845 | | 7 | 74652026 | 74657514 |
| A7 | ENST000000323788 | NM_145645 | 7 | 74654800 | 74657968 |
| A7 | ENSESTT00000037846 | | 7 | 74655026 | 74657893 |
| A7 | ENSESTT00000037847 | | 7 | 74656958 | 74658035 |
| A7 | ENSESTT00000037848 | | 7 | 74657213 | 74657787 |
| A7 | ENST000000257665 | POM121 | 7 | 74658837 | 74684082 |
| A7 | ENSESTT00000037858 | | 7 | 74659912 | 74663188 |
| A7 | OTTHUMT000007006280 | mbhnh_h_73557902 74457901_m 133948896_13 | 7 | 74660168 | 74684082 |
| A7 | ENSESTT00000037857 | | 7 | 74664350 | 74666568 |
| A7 | ENSESTT00000037856 | | 7 | 74666904 | 74679035 |
| A7 | ENSESTT00000037855 | | 7 | 74682449 | 74716115 |
| A7 | ENSESTT00000037854 | | 7 | 74716469 | 74769374 |
| A7 | ENST000000301990 | | 7 | 74736524 | 74745533 |
| A7 | OTTHUMT000007007168 | mbhnh_ts.74.012.a | 7 | 74738139 | 74744350 |
| A7 | OTTHUMT000007007383 | Hs_7_c1157 | 7 | 74744346 | 74752527 |
| A7 | ENST000000248606 | PMS2L3 | 7 | 74749246 | 74756200 |
| A7 | ENST000000301956 | PMS2L9 | 7 | 74752342 | 74769228 |
| A7 | OTTHUMT000007007380 | Hs_7_c1154 | 7 | 74753806 | 74769228 |
| A7 | ENSESTT00000037853 | | 7 | 74757541 | 74769401 |
| A7 | OTTHUMT000007006447 | HIP1 | 7 | 74775947 | 74840649 |
| A7 | ENSESTT00000037852 | | 7 | 74779537 | 74786565 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|-------------------|---|----------|----------|
| A7 | ENST000000320938 | HIP1 | 7 | 74779582 | 74980306 |
| A7 | ENSESTT00000037851 | | 7 | 74788329 | 74797481 |
| A7 | ENSESTT00000037850 | | 7 | 74799047 | 74804723 |
| A7 | ENSESTT00000037849 | | 7 | 74895820 | 74980379 |
| A7 | OTTHUMT00007007406 | Hs_7_c1160 | 7 | 74980208 | 74980327 |
| A7 | ENST00000005180 | CCL26 | 7 | 75010931 | 75013663 |
| A7 | ENSESTT00000040258 | | 7 | 75011028 | 75031153 |
| A7 | OTTHUMT00007006539 | SCYA26 | 7 | 75011100 | 75013583 |
| A7 | ENST00000222902 | CCL24 | 7 | 75053203 | 75055122 |
| A7 | OTTHUMT00007006535 | SCYA24 | 7 | 75053203 | 75055122 |
| A7 | OTTHUMT00007007412 | Hs_7_c1163 | 7 | 75077073 | 75077548 |
| A7 | ENST00000006777 | NM_020684 | 7 | 75120355 | 75130328 |
| A7 | OTTHUMT00007007126 | NPD007 | 7 | 75120355 | 75134177 |
| A7 | ENSESTT00000040185 | | 7 | 75120424 | 75130279 |
| A7 | ENSESTT00000040186 | | 7 | 75120432 | 75130279 |
| A7 | ENSESTT00000040257 | | 7 | 75120464 | 75130107 |
| A7 | ENST00000318622 | Q9UDT1 | 7 | 75120490 | 75122833 |
| A7 | ENSESTT00000040187 | | 7 | 75120579 | 75129992 |
| A7 | ENSESTT00000040195 | | 7 | 75156536 | 75222052 |
| A7 | ENSESTT00000040194 | | 7 | 75156536 | 75225046 |
| A7 | ENSESTT00000040192 | | 7 | 75156536 | 75225268 |
| A7 | ENSESTT00000040193 | | 7 | 75156536 | 75225268 |
| A7 | ENSESTT00000040188 | | 7 | 75156536 | 75226369 |
| A7 | ENSESTT00000040189 | | 7 | 75156536 | 75226369 |
| A7 | ENSESTT00000040190 | | 7 | 75156536 | 75226369 |
| A7 | ENSESTT00000040191 | | 7 | 75156536 | 75226369 |
| A7 | ENSESTT00000040202 | | 7 | 75156536 | 75226773 |
| A7 | ENSESTT00000040203 | | 7 | 75156536 | 75226773 |
| A7 | OTTHUMT00007007414 | Hs_7_c1165 | 7 | 75164520 | 75164746 |
| A7 | OTTHUMT00007006487 | mbhmh_h_73557902_ | | | |
| | | 74457901_m_ | | | |
| | | 133948896_13 | | | |
| A7 | ENSESTT00000040200 | | 7 | 75176809 | 75227888 |
| A7 | ENSESTT00000040199 | | 7 | 75195386 | 75225046 |
| | | | 7 | 75195386 | 75225268 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|---|----------|----------|
| A7 | ENSESTT000000040197 | 7 | 75195386 | 75226369 |
| A7 | ENSESTT000000040198 | 7 | 75195386 | 75226369 |
| A7 | ENSESTT000000040196 | 7 | 75195386 | 75226773 |
| A7 | ENST00000265302 | 7 | 75195400 | 75227888 |
| A7 | ENSESTT000000040201 | 7 | 75223628 | 75226773 |
| A7 | OTTHUMT00007007077 | 7 | 75228396 | 75236042 |
| A7 | ENSESTT000000040252 | 7 | 75229120 | 75236046 |
| A7 | ENSESTT000000040253 | 7 | 75229129 | 75236046 |
| A7 | ENSESTT000000040254 | 7 | 75229182 | 75236046 |
| A7 | ENSESTT000000040255 | 7 | 75229333 | 75236046 |
| A7 | ENSESTT000000040256 | 7 | 75229371 | 75236046 |
| A7 | ENSESTT000000040248 | 7 | 75237744 | 75255296 |
| A7 | ENSESTT000000040244 | 7 | 75237744 | 75289349 |
| A7 | ENSESTT000000040245 | 7 | 75237744 | 75289349 |
| A7 | ENSESTT000000040238 | 7 | 75237744 | 75289395 |
| A7 | ENSESTT000000040239 | 7 | 75237744 | 75289395 |
| A7 | ENSESTT000000040240 | 7 | 75237744 | 75289395 |
| A7 | ENSESTT000000040236 | 7 | 75237744 | 75295682 |
| A7 | ENSESTT000000040251 | 7 | 75237749 | 75242410 |
| A7 | ENSESTT000000040250 | 7 | 75237749 | 75246817 |
| A7 | ENSESTT000000040249 | 7 | 75237749 | 75255296 |
| A7 | ENSESTT000000040247 | 7 | 75237749 | 75263402 |
| A7 | ENSESTT000000040246 | 7 | 75237749 | 75289349 |
| A7 | ENSESTT000000040241 | 7 | 75237749 | 75289395 |
| A7 | ENSESTT000000040242 | 7 | 75237749 | 75289395 |
| A7 | OTTHUMT00007006727 | 7 | 75237749 | 75289410 |
| A7 | ENSESTT000000040237 | 7 | 75237749 | 75295682 |
| A7 | ENST00000248600 | 7 | 75237875 | 75271930 |
| A7 | ENSESTT000000040243 | 7 | 75255146 | 75289370 |
| A7 | ENST00000315790 | 7 | 75288063 | 75288355 |
| A7 | ENSESTT000000040204 | 7 | 75289457 | 75308009 |
| A7 | ENST00000315758 | 7 | 75289482 | 75308017 |
| A7 | OTTHUMT00007007151 | 7 | 75289482 | 75308020 |
| A7 | ENSESTT000000040205 | 7 | 75289536 | 75308009 |

TABLE 3 (Continued)

| | | | | | | | |
|----|--------------------|--|------------------|--|---|----------|----------|
| A7 | ENSESTT00000040206 | | | | 7 | 75305745 | 75308009 |
| A7 | OTTHUMT00007007750 | | Hs_7_c3073 | | 7 | 75312957 | 75313204 |
| A7 | OTTHUMT00007007439 | | Hs_7_c1171 | | 7 | 75315857 | 75316216 |
| A7 | OTTHUMT00007008045 | | Hs_7_c5123 | | 7 | 75340845 | 75342813 |
| A7 | OTTHUMT00007007443 | | Hs_7_c1174 | | 7 | 75349841 | 75373549 |
| A7 | ENST000000332057 | | | | 7 | 75354317 | 75354842 |
| A7 | OTTHUMT00007007445 | | Hs_7_c1175 | | 7 | 75354317 | 75354842 |
| A7 | OTTHUMT00007007446 | | Hs_7_c1176 | | 7 | 75390863 | 75390964 |
| A7 | OTTHUMT00007007447 | | Hs_7_c1177 | | 7 | 75415144 | 75418535 |
| A7 | ENSESTT00000040208 | | | | 7 | 75443300 | 75501454 |
| A7 | ENSESTT00000040207 | | | | 7 | 75443300 | 75506790 |
| A7 | ENSESTT00000040209 | | | | 7 | 75443307 | 75506790 |
| A7 | ENSESTT00000040210 | | | | 7 | 75476389 | 75501454 |
| A7 | ENST000000326382 | | | | 7 | 75476473 | 75522894 |
| A7 | OTTHUMT00007006504 | | mbhnh_h_73557902 | | | | |
| | | | 74457901_m_ | | | | |
| | | | 133948896_13 | | | | |
| A7 | ENSESTT00000040211 | | | | 7 | 75476474 | 75527249 |
| A7 | ENSESTT00000040212 | | | | 7 | 75514460 | 75522893 |
| A7 | ENST000000326284 | | | | 7 | 75523140 | 75527181 |
| A7 | ENSESTT00000040213 | | NM_153043 | | 7 | 75524053 | 75528692 |
| A7 | OTTHUMT00007006552 | | HSPB1 | | 7 | 75543994 | 75545679 |
| A7 | ENST000000248553 | | HSPB1 | | 7 | 75544012 | 75545701 |
| A7 | OTTHUMT00007006186 | | YWHAG | | 7 | 75544012 | 75545702 |
| A7 | ENST000000307630 | | YWHAG | | 7 | 75568205 | 75600405 |
| A7 | ENSESTT00000040235 | | | | 7 | 75570983 | 75600214 |
| A7 | ENST000000325070 | | | | 7 | 75570997 | 75600397 |
| A7 | ENST000000275560 | | | | 7 | 75602536 | 75603507 |
| A7 | OTTHUMT00007006188 | | SRCRB4D | | 7 | 75630735 | 75651095 |
| A7 | ENSESTT00000040234 | | SRCRB4D | | 7 | 75630735 | 75651101 |
| A7 | ENST000000297799 | | Q96BF5 | | 7 | 75631056 | 75638966 |
| A7 | OTTHUMT00007006555 | | ZP3A | | 7 | 75631465 | 75635032 |
| A7 | ENST000000257652 | | ZP3 | | 7 | 75666341 | 75683471 |
| A7 | ENSESTT00000040214 | | | | 7 | 75666371 | 75683468 |
| | | | | | 7 | 75670977 | 75683476 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|-------------------|---|----------|----------|
| A7 | ENSESTT000000040215 | | 7 | 75674328 | 75683368 |
| A7 | ENSESTT000000040216 | | 7 | 75703078 | 75724019 |
| A7 | ENSESTT000000040217 | | 7 | 75703114 | 75724170 |
| A7 | ENSESTT000000040218 | | 7 | 75703116 | 75722103 |
| A7 | ENSESTT000000040219 | | 7 | 75703123 | 75724122 |
| A7 | ENSESTT000000040220 | | 7 | 75703136 | 75724190 |
| A7 | OTTHUMT00007006196 | DTX2 | 7 | 75703141 | 75747397 |
| A7 | ENST00000324432 | DTX2 | 7 | 75703143 | 75747007 |
| A7 | ENSESTT000000040221 | | 7 | 75703158 | 75721985 |
| A7 | OTTHUMT00007007472 | Hs_7_c1183 | 7 | 75711502 | 75712557 |
| A7 | ENST00000329896 | | 7 | 75711568 | 75712530 |
| A7 | ENSESTT000000040222 | | 7 | 75743571 | 75747401 |
| A7 | ENSESTT000000040223 | | 7 | 75751969 | 75756864 |
| A7 | ENSESTT000000040224 | | 7 | 75751972 | 75755467 |
| A7 | ENSESTT000000040225 | | 7 | 75752017 | 75756483 |
| A7 | ENST00000334348 | UPK3B | 7 | 75752059 | 75756610 |
| A7 | ENST00000257632 | UPK3B | 7 | 75752059 | 75756657 |
| A7 | ENSESTT000000040226 | | 7 | 75752161 | 75755394 |
| A7 | ENSESTT000000040227 | | 7 | 75752941 | 75756621 |
| A7 | ENST00000333674 | | 7 | 75763339 | 75774103 |
| A7 | OTTHUMT00007007476 | Hs_7_c1187 | 7 | 75765921 | 75774100 |
| A7 | ENST00000332397 | | 7 | 75772915 | 75781708 |
| A7 | OTTHUMT00007007156 | mbhmh_H_DJ1158B01 | | | |
| | | F218045. | | | |
| | | fgenes2.2 | 7 | 75774096 | 75782865 |
| A7 | ENSESTT000000040233 | | 7 | 75775379 | 75781751 |
| A7 | ENST00000328339 | | 7 | 75777575 | 75780226 |
| A7 | OTTHUMT00007007474 | | 7 | 75791024 | 75792928 |
| A7 | ENSESTT000000040229 | Hs_7_c1186 | 7 | 75851392 | 75867091 |
| A7 | ENSESTT000000040228 | | 7 | 75851392 | 75867499 |
| A7 | ENSESTT000000040232 | | 7 | 75851392 | 75867499 |
| A7 | OTTHUMT00007006838 | POMZP3 | 7 | 75851394 | 75868655 |
| A7 | ENST00000310842 | POMZP3 | 7 | 75851570 | 75868652 |
| A7 | ENSESTT000000040230 | | 7 | 75852858 | 75867011 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|--------------------|---|----------|----------|
| A7 | ENSESTT00000040231 | | 7 | 75859587 | 75868162 |
| A7 | OTTHUMT00007007515 | Hs_7_c1194 | 7 | 75891805 | 75892303 |
| A7 | OTTHUMT00007007518 | Hs_7_c1196 | 7 | 76201256 | 76245716 |
| A7 | OTTHUMT00007007520 | Hs_7_c1197 | 7 | 76209601 | 76210656 |
| A7 | ENST00000331556 | | 7 | 76209667 | 76210629 |
| A7 | ENSESTT00000037296 | | 7 | 76214085 | 76218367 |
| A7 | ENST00000307569 | | 7 | 76220023 | 76231777 |
| A7 | ENST00000162863 | PMS2L11 | 7 | 76243584 | 76257202 |
| A7 | ENSESTT00000037258 | | 7 | 76243673 | 76245780 |
| A7 | ENSESTT00000037261 | | 7 | 76255577 | 76265170 |
| A7 | ENSESTT00000037259 | | 7 | 76257204 | 76440006 |
| A7 | OTTHUMT00007007328 | Hs_7_c1202 | 7 | 76260312 | 76295598 |
| A7 | ENST00000285792 | Q86WY7 | 7 | 76263908 | 76269847 |
| A7 | ENSESTT00000037292 | | 7 | 76264978 | 76266386 |
| A7 | OTTHUMT00007006602 | mfhmh_gw11359887 | | | |
| | | .75188365.75365376 | | | |
| | | .7.9e- | | | |
| A7 | ENSESTT00000037291 | | 7 | 76266095 | 76300760 |
| A7 | ENSESTT00000037295 | | 7 | 76266148 | 76294084 |
| A7 | ENSESTT00000037294 | | 7 | 76269559 | 76270744 |
| A7 | ENSESTT00000037293 | | 7 | 76271927 | 76273767 |
| A7 | ENSESTT00000037290 | | 7 | 76279424 | 76281262 |
| A7 | ENST00000330572 | | 7 | 76294463 | 76300803 |
| A7 | OTTHUMT00007007330 | | 7 | 76297956 | 76299277 |
| A7 | ENSESTT00000037289 | Hs_7_c1203 | 7 | 76313155 | 76313732 |
| A7 | OTTHUMT00007006666 | mbhmh_h_75248517 | 7 | 76325407 | 76363754 |
| | | 76148516_m_ | | | |
| | | 19731738_198 | | | |
| A7 | ENSESTT00000037288 | | 7 | 76330887 | 76352916 |
| A7 | ENST00000327285 | | 7 | 76351350 | 76363761 |
| A7 | OTTHUMT00007007332 | | 7 | 76356805 | 76357619 |
| A7 | ENSESTT00000037260 | Hs_7_c1204 | 7 | 76356814 | 76357592 |
| A7 | OTTHUMT00007006412 | | 7 | 76364104 | 76409308 |
| A7 | ENST00000248598 | mbax_nh_gi17389564 | 7 | 76437484 | 76441197 |
| | | FGL2 | 7 | 76437495 | 76441207 |

TABLE 3 (Continued)

[illegible]

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|------------------|---|-----------|-----------|
| A7 | ENSESTT000000037273 | | 7 | 76878133 | 76881437 |
| A7 | ENSESTT000000037274 | | 7 | 76878340 | 76880309 |
| A7 | ENSESTT000000037278 | | 7 | 76900557 | 76937634 |
| A7 | ENSESTT000000037275 | | 7 | 76910887 | 76912750 |
| A7 | ENSESTT000000037279 | | 7 | 76925217 | 76937634 |
| A7 | ENSESTT000000037280 | | 7 | 76925311 | 76937620 |
| A7 | ENST000000334955 | Q86X48 | 7 | 76937838 | 76977836 |
| A7 | OTTHUMT00007006307 | mbhnh_h_75248517 | | | |
| | | 76148516_m | | | |
| | | _18931739_198 | 7 | 76937838 | 77020536 |
| A7 | ENSESTT000000037277 | | 7 | 76977776 | 76991120 |
| A7 | ENSESTT000000037276 | | 7 | 76990885 | 77010048 |
| A7 | ENSESTT000000031431 | | 7 | 77010043 | 77021059 |
| A7 | OTTHUMT00007006265 | DC32 | 7 | 77035083 | 77039701 |
| A7 | ENST00000257663 | C7orf35 | 7 | 77035084 | 77039798 |
| A7 | ENSESTT000000031444 | | 7 | 77035096 | 77039946 |
| A7 | ENSESTT000000031445 | | 7 | 77035258 | 77039797 |
| A7 | OTTHUMT00007006310 | mbhnh_h_75248517 | | | |
| | | 76148516_m | | | |
| | | _18931739_198 | 7 | 77081624 | 77196246 |
| A7 | ENST000000248550 | Q8TBW4 | 7 | 77096101 | 77195265 |
| A8 | ENST000000256653 | MAN1A2 | 1 | 117256452 | 117415542 |
| A8 | ENSESTT000000003501 | | 1 | 117256479 | 117412324 |
| A8 | ENSESTT000000003500 | | 1 | 117256479 | 117414355 |
| A8 | ENSESTT000000003502 | | 1 | 117331232 | 117385841 |
| A8 | ENSESTT000000003523 | | 1 | 117485833 | 117494713 |
| A8 | ENSESTT000000003503 | | 1 | 117494976 | 117512577 |
| A8 | ENST000000328500 | NM_017709 | 1 | 117495052 | 117517367 |
| A8 | ENST000000313132 | | 1 | 117529727 | 117530632 |
| A8 | ENST000000334351 | PNRC2 | 1 | 117667090 | 117667509 |
| A8 | ENSESTT000000003522 | | 1 | 117667118 | 117667900 |
| A8 | ENSESTT000000003520 | | 1 | 117759186 | 117818631 |
| A8 | ENSESTT000000003521 | | 1 | 117759281 | 117818631 |
| A8 | ENST000000263166 | GDAP2 | 1 | 117759572 | 117818591 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|--------|---|-----------|-----------|
| A8 | ENSESTT000000003504 | | 1 | 117818779 | 117823687 |
| A8 | ENST00000309112 | Q9H141 | 1 | 117822324 | 117848451 |
| A8 | ENST00000183319 | WDR3 | 1 | 117822324 | 117849059 |
| A8 | ENSESTT000000003505 | | 1 | 117831482 | 117849104 |
| A8 | ENSESTT000000003518 | | 1 | 117842855 | 117853814 |
| A8 | ENSESTT000000003515 | | 1 | 117842859 | 117859122 |
| A8 | ENSESTT000000003519 | | 1 | 117842865 | 117852907 |
| A8 | ENSESTT000000003517 | | 1 | 117842865 | 117855703 |
| A8 | ENST00000286203 | Q8NAZ1 | 1 | 117842866 | 118074161 |
| A8 | ENSESTT000000003516 | | 1 | 117842868 | 117855764 |
| A8 | ENSESTT000000003513 | | 1 | 117861020 | 117880531 |
| A8 | ENSESTT000000003514 | | 1 | 117862486 | 117876996 |
| A8 | ENSESTT000000003512 | | 1 | 117885713 | 117905184 |
| A8 | ENSESTT000000003510 | | 1 | 117917336 | 117943048 |
| A8 | ENSESTT000000003511 | | 1 | 117920750 | 117928350 |
| A8 | ENSESTT000000003509 | | 1 | 117943055 | 117962920 |
| A8 | ENSESTT000000003507 | | 1 | 117943058 | 117970490 |
| A8 | ENSESTT000000003508 | | 1 | 117962945 | 117970300 |
| A8 | ENSESTT000000003506 | | 1 | 117974982 | 117976166 |
| A8 | ENSESTT000000003436 | | 1 | 118039391 | 118074185 |
| A8 | ENST00000334368 | Q9UN81 | 1 | 118742261 | 118743277 |
| A8 | ENST00000207157 | TBX15 | 1 | 118772051 | 118820834 |
| A8 | ENSESTT000000003435 | | 1 | 118889344 | 118890396 |
| A8 | ENSESTT000000003434 | | 1 | 118889622 | 118890409 |
| A8 | ENST00000235521 | WARS2 | 1 | 118920227 | 119029659 |
| A8 | ENSESTT000000003433 | | 1 | 118921825 | 118934670 |
| A8 | ENSESTT000000003432 | | 1 | 118922024 | 119029623 |
| A8 | ENST00000333224 | | 1 | 119015816 | 119016295 |
| A8 | ENSESTT000000003526 | | 1 | 119035413 | 119036037 |
| A8 | ENST00000330630 | | 1 | 119108318 | 119108923 |
| A8 | ENSESTT000000003527 | | 1 | 119217196 | 119219818 |
| A8 | ENSESTT000000003528 | | 1 | 119217256 | 119245186 |
| A8 | ENSESTT000000003529 | | 1 | 119257783 | 119275698 |
| A8 | ENSESTT000000003531 | | 1 | 119257783 | 119281249 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|---|-----------|-----------|
| A8 | ENSESTT000000003530 | 1 | 119269568 | 119281249 |
| A8 | ENST00000325945 | 1 | 119270090 | 119282844 |
| A8 | ENST00000331050 | 1 | 119304149 | 119403649 |
| A8 | ENSESTT000000003533 | 1 | 119304154 | 119311277 |
| A8 | ENSESTT000000003532 | 1 | 119304154 | 119311779 |
| A8 | ENSESTT000000003534 | 1 | 119304167 | 119308609 |
| A8 | ENST00000303184 | 1 | 119304424 | 119311624 |
| A8 | ENST00000333709 | 1 | 119304427 | 119403649 |
| A8 | ENST00000332017 | 1 | 119304427 | 119404056 |
| A8 | ENST00000256586 | 1 | 119328005 | 119334823 |
| A8 | ENST00000286193 | 1 | 119356225 | 119362218 |
| A8 | ENST00000331024 | 1 | 119385611 | 119385839 |
| A8 | ENSESTT000000003535 | 1 | 119396243 | 119404058 |
| A8 | ENSESTT000000003536 | 1 | 119396244 | 119397374 |
| A8 | ENSESTT000000003537 | 1 | 119396322 | 119404058 |
| A8 | ENST00000235547 | 1 | 119396481 | 119403649 |
| A8 | ENST00000335580 | 1 | 119456897 | 119461071 |
| A8 | ENST00000331009 | 1 | 119485270 | 119485838 |
| A8 | ENST00000335229 | 1 | 119494238 | 119494381 |
| A8 | ENST00000271263 | 1 | 119511709 | 119512401 |
| A8 | ENSESTT000000003538 | 1 | 119600896 | 119633222 |
| A8 | ENSESTT000000003539 | 1 | 119600896 | 119633222 |
| A8 | ENST00000263167 | 1 | 119600896 | 119633222 |
| A8 | ENSESTT000000003540 | 1 | 119601027 | 119633206 |
| A8 | ENSESTT000000003541 | 1 | 119615847 | 119633222 |
| A8 | ENSESTT000000003542 | 1 | 119615847 | 119633222 |
| A8 | ENSESTT000000003543 | 1 | 119616052 | 119619075 |
| A8 | ENST00000256633 | 1 | 119626114 | 119633222 |
| A8 | ENSESTT000000003552 | 1 | 119637386 | 119657898 |
| A8 | ENSESTT000000003553 | 1 | 119637543 | 119657890 |
| A8 | ENSESTT000000003544 | 1 | 119648894 | 119657887 |
| A8 | ENST00000324032 | 1 | 119653323 | 119657877 |
| A8 | ENSESTT000000003551 | 1 | 119683168 | 119700499 |
| A8 | ENSESTT000000003550 | 1 | 119683421 | 119700465 |
| | | 1 | 119683593 | 119692170 |

TABLE 3 (Continued)

| A8 | ENST000000256585 | REG4 | 1 | 119683622 | 119697773 |
|----|---------------------|----------------|---|-----------|-----------|
| A8 | ENSESTT00000003549 | | 1 | 119687553 | 119697870 |
| A9 | OTTHUMT000000606260 | SLC26A8-001 | 6 | 35958152 | 36039212 |
| A9 | ENST000000229784 | SLC26A8 | 6 | 35958327 | 36034339 |
| A9 | ENST000000310888 | SLC26A8 | 6 | 35958532 | 36034339 |
| A9 | ENSESTT000000033005 | | 6 | 36012429 | 36039125 |
| A9 | ENSESTT000000032935 | | 6 | 36042425 | 36067456 |
| A9 | OTTHUMT000000606277 | MAPK14-002 | 6 | 36042428 | 36123079 |
| A9 | OTTHUMT000000606276 | MAPK14-001 | 6 | 36042428 | 36125390 |
| A9 | ENST000000229794 | NM_139014 | 6 | 36042790 | 36122248 |
| A9 | ENST000000229795 | MAPK14 | 6 | 36042790 | 36123079 |
| A9 | ENST000000310795 | MAPK14 | 6 | 36042790 | 36123079 |
| A9 | ENSESTT000000032936 | | 6 | 36090530 | 36124509 |
| A9 | OTTHUMT000000606258 | dJ179N16.3-001 | 6 | 36106623 | 36107278 |
| A9 | OTTHUMT000000606270 | MAPK13-005 | 6 | 36142441 | 36150464 |
| A9 | ENSESTT000000032938 | | 6 | 36142441 | 36154698 |
| A9 | ENSESTT000000032937 | | 6 | 36142441 | 36155902 |
| A9 | OTTHUMT000000606268 | MAPK13-003 | 6 | 36144953 | 36154312 |
| A9 | OTTHUMT000000606266 | MAPK13-001 | 6 | 36144953 | 36154697 |
| A9 | ENST000000211287 | MAPK13 | 6 | 36145117 | 36154697 |
| A9 | ENSESTT000000032940 | | 6 | 36145142 | 36154698 |
| A9 | ENSESTT000000032939 | | 6 | 36145142 | 36155902 |
| A9 | ENSESTT000000032941 | | 6 | 36145145 | 36151536 |
| A9 | ENSESTT000000032943 | | 6 | 36145202 | 36154698 |
| A9 | ENSESTT000000032942 | | 6 | 36145202 | 36155902 |
| A9 | ENSESTT000000032944 | | 6 | 36145273 | 36146034 |
| A9 | OTTHUMT000000606269 | MAPK13-004 | 6 | 36145295 | 36153839 |
| A9 | OTTHUMT000000606267 | MAPK13-002 | 6 | 36145501 | 36151147 |
| A9 | OTTHUMT000000606280 | BRPF3-001 | 6 | 36211405 | 36247418 |
| A9 | ENST000000322766 | BRPF3 | 6 | 36211405 | 36247421 |
| A9 | ENSESTT000000032945 | | 6 | 36212028 | 36215240 |
| A9 | ENSESTT000000032946 | | 6 | 36215902 | 36224498 |
| A9 | OTTHUMT000000606281 | BRPF3-002 | 6 | 36225130 | 36247418 |
| A9 | ENST000000211291 | Q9NWM1 | 6 | 36225982 | 36245352 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|---|----------------|----------|----------|
| A9 | ENSESTT00000032947 | 6 | | 36228665 | 36232584 |
| A9 | ENSESTT00000032948 | 6 | | 36239919 | 36246148 |
| A9 | OTTHUMT00006006284 | 6 | dJ50J22.1-001 | 36285116 | 36310051 |
| A9 | ENST00000312917 | 6 | PNPLA1 | 36306032 | 36323227 |
| A9 | OTTHUMT00006006294 | 6 | dJ50J22.5-001 | 36317034 | 36327443 |
| A9 | OTTHUMT00006006290 | 6 | dJ50J22.3-001 | 36331805 | 36334066 |
| A9 | OTTHUMT00006006286 | 6 | dJ50J22.2-001 | 36380826 | 36402415 |
| A9 | OTTHUMT00006006287 | 6 | dJ50J22.2-002 | 36380826 | 36402415 |
| A9 | ENST00000229480 | 6 | ETV7 | 36380827 | 36402349 |
| A9 | ENSESTT00000033001 | 6 | | 36390551 | 36402400 |
| A9 | OTTHUMT00006006292 | 6 | dJ50J22.4-001 | 36401463 | 36406626 |
| A9 | ENST00000316266 | 6 | NM_152990 | 36405183 | 36415166 |
| A9 | OTTHUMT00006006296 | 6 | dJ347L7.1-001 | 36415095 | 36457521 |
| A9 | ENSESTT00000032949 | 6 | | 36457399 | 36458352 |
| A9 | ENST00000265344 | 6 | C6orf69 | 36457399 | 36505168 |
| A9 | OTTHUMT00006006298 | 6 | dJ108K11.3-001 | 36457619 | 36505775 |
| A9 | ENSESTT00000032950 | 6 | | 36484759 | 36499460 |
| A9 | ENSESTT00000032952 | 6 | | 36499410 | 36503191 |
| A9 | ENSESTT00000032951 | 6 | | 36499410 | 36505772 |
| A9 | ENSESTT00000032953 | 6 | | 36501514 | 36505772 |
| A9 | OTTHUMT00006006300 | 6 | STK38-001 | 36508524 | 36562102 |
| A9 | ENST00000229812 | 6 | STK38 | 36508531 | 36562102 |
| A9 | ENSESTT00000032999 | 6 | | 36510468 | 36522221 |
| A9 | ENSESTT00000032996 | 6 | | 36530077 | 36562102 |
| A9 | ENSESTT00000032955 | 6 | | 36608994 | 36616435 |
| A9 | ENSESTT00000032954 | 6 | | 36608994 | 36617545 |
| A9 | OTTHUMT00006006302 | 6 | SFRS3-001 | 36609000 | 36618064 |
| A9 | OTTHUMT00006006303 | 6 | SFRS3-002 | 36609023 | 36616672 |
| A9 | ENST00000244437 | 6 | SFRS3 | 36611395 | 36617408 |
| A9 | ENST00000317631 | 6 | | 36688401 | 36689903 |
| A9 | OTTHUMT00006006306 | 6 | dJ193M11.1-001 | 36688449 | 36689902 |
| A9 | OTTHUMT00006012688 | 6 | CDKN1A-005 | 36691160 | 36699143 |
| A9 | ENSESTT00000032956 | 6 | | 36692420 | 36701950 |
| A9 | OTTHUMT00006012684 | 6 | CDKN1A-001 | 36693290 | 36701971 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | ENST00000244741 | CDKN1A | 6 | 36693342 | 36701963 |
| A9 | OTTHUMT00006012685 | CDKN1A-002 | 6 | 36693353 | 36700556 |
| A9 | ENSESTT00000032957 | | 6 | 36693354 | 36701950 |
| A9 | OTTHUMT00006012687 | CDKN1A-004 | 6 | 36693358 | 36699130 |
| A9 | OTTHUMT00006012686 | CDKN1A-003 | 6 | 36693403 | 36695312 |
| A9 | ENSESTT00000032958 | | 6 | 36693403 | 36695312 |
| A9 | OTTHUMT00006011804 | dJ431A14.3-001 | 6 | 36737227 | 36743433 |
| A9 | ENST00000229824 | | 6 | 36737257 | 36745385 |
| A9 | ENST00000310390 | Q8TDV1 | 6 | 36751637 | 36752338 |
| A9 | OTTHUMT00006006308 | dJ431A14.4-001 | 6 | 36751682 | 36752618 |
| A9 | OTTHUMT00006006311 | dJ431A14.5-002 | 6 | 36755407 | 36772013 |
| A9 | ENST00000244751 | CPNE5 | 6 | 36755410 | 36854008 |
| A9 | OTTHUMT00006006310 | dJ431A14.5-001 | 6 | 36755410 | 36854633 |
| A9 | ENSESTT00000032989 | | 6 | 36758313 | 36772015 |
| A9 | OTTHUMT00006006312 | dJ431A14.5-003 | 6 | 36760019 | 36772013 |
| A9 | ENSESTT00000032990 | | 6 | 36760019 | 36772013 |
| A9 | ENSESTT00000032987 | | 6 | 36760019 | 36780337 |
| A9 | ENSESTT00000032988 | | 6 | 36760024 | 36772025 |
| A9 | OTTHUMT00006006351 | PPIL1-002 | 6 | 36869458 | 36873266 |
| A9 | OTTHUMT00006006350 | PPIL1-001 | 6 | 36869458 | 36889655 |
| A9 | ENST00000244367 | PPIL1 | 6 | 36869463 | 36889629 |
| A9 | ENSESTT00000032983 | | 6 | 36870099 | 36889655 |
| A9 | ENSESTT00000032984 | | 6 | 36870254 | 36886506 |
| A9 | OTTHUMT00006006316 | dJ90K10.2-001 | 6 | 36886501 | 36939186 |
| A9 | OTTHUMT00006006319 | dJ90K10.2-004 | 6 | 36900485 | 36931139 |
| A9 | OTTHUMT00006006317 | dJ90K10.2-002 | 6 | 36900495 | 36938153 |
| A9 | OTTHUMT00006006318 | dJ90K10.2-003 | 6 | 36900495 | 36938153 |
| A9 | ENST00000314503 | C6orf89 | 6 | 36900495 | 36941175 |
| A9 | ENSESTT00000032959 | | 6 | 36900540 | 36938610 |
| A9 | OTTHUMT00006006320 | dJ90K10.2-005 | 6 | 36900544 | 36938203 |
| A9 | ENSESTT00000032960 | | 6 | 36900558 | 36929229 |
| A9 | ENSESTT00000032961 | | 6 | 36909132 | 36938610 |
| A9 | OTTHUMT00006006326 | dJ90K10.3-001 | 6 | 36943210 | 36943499 |
| A9 | OTTHUMT00006006328 | dJ90K10.4-001 | 6 | 36954718 | 36959306 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | ENST00000297048 | PI16 | 6 | 36969064 | 36979463 |
| A9 | OTTHUMT00006006330 | dJ90K10.5-001 | 6 | 36969064 | 36979468 |
| A9 | ENSESTT00000032962 | | 6 | 36969360 | 36974006 |
| A9 | ENSESTT00000032963 | | 6 | 36969368 | 36978833 |
| A9 | ENSESTT00000032964 | | 6 | 36969383 | 36978833 |
| A9 | OTTHUMT00006006331 | dJ90K10.5-002 | 6 | 36977621 | 36979298 |
| A9 | OTTHUMT00006006335 | dJ90K10.6-002 | 6 | 36982772 | 36991863 |
| A9 | OTTHUMT00006006341 | dJ90K10.6-008 | 6 | 36982772 | 37000929 |
| A9 | OTTHUMT00006006334 | dJ90K10.6-001 | 6 | 36982772 | 37000929 |
| A9 | ENSESTT00000032969 | | 6 | 36983213 | 36992788 |
| A9 | ENSESTT00000032965 | | 6 | 36983213 | 37000795 |
| A9 | ENSESTT00000032966 | | 6 | 36983310 | 37000795 |
| A9 | ENSESTT00000032967 | | 6 | 36983310 | 37000795 |
| A9 | OTTHUMT00006006340 | dJ90K10.6-007 | 6 | 36983368 | 37000612 |
| A9 | ENST00000259958 | MTCH1 | 6 | 36983368 | 37000747 |
| A9 | OTTHUMT00006006337 | dJ90K10.6-004 | 6 | 36983391 | 36985547 |
| A9 | OTTHUMT00006006336 | dJ90K10.6-003 | 6 | 36983543 | 36992304 |
| A9 | OTTHUMT00006006338 | dJ90K10.6-005 | 6 | 36984097 | 36987385 |
| A9 | ENSESTT00000032968 | | 6 | 36984669 | 37000795 |
| A9 | OTTHUMT00006006339 | dJ90K10.6-006 | 6 | 36984687 | 36987307 |
| A9 | OTTHUMT00006006356 | FGD2-001 | 6 | 37020277 | 37042929 |
| A9 | ENSESTT00000035539 | | 6 | 37020289 | 37026654 |
| A9 | ENSESTT00000035540 | | 6 | 37020301 | 37028317 |
| A9 | ENST00000274963 | FGD2 | 6 | 37020330 | 37043169 |
| A9 | ENSESTT00000035541 | | 6 | 37040439 | 37042882 |
| A9 | OTTHUMT00006006354 | dJ405J24.2-001 | 6 | 37059462 | 37060032 |
| A9 | ENST00000297147 | O95101 | 6 | 37059560 | 37059820 |
| A9 | OTTHUMT00006006358 | dJ441G21.1-001 | 6 | 37105853 | 37106493 |
| A9 | ENST00000310055 | | 6 | 37105943 | 37106437 |
| A9 | ENSESTT00000035542 | | 6 | 37184786 | 37185779 |
| A9 | ENSESTT00000035543 | | 6 | 37184786 | 37185779 |
| A9 | OTTHUMT00006012708 | PIM1-003 | 6 | 37184834 | 37190057 |
| A9 | ENST00000259722 | PIM1 | 6 | 37184841 | 37190057 |
| A9 | ENSESTT00000035544 | | 6 | 37185789 | 37190059 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | OTTHUMT00006012709 | PIM1-004 | 6 | 37187099 | 37188878 |
| A9 | ENSESTT00000035545 | | 6 | 37187103 | 37190059 |
| A9 | OTTHUMT00006012706 | PIM1-001 | 6 | 37187125 | 37188943 |
| A9 | ENSESTT00000035546 | | 6 | 37187125 | 37190059 |
| A9 | OTTHUMT00006012707 | PIM1-002 | 6 | 37187627 | 37190057 |
| A9 | OTTHUMT00006006360 | dJ355M6.2-001 | 6 | 37226811 | 37272786 |
| A9 | ENST00000316899 | Q8TC54 | 6 | 37226812 | 37233661 |
| A9 | OTTHUMT00006006361 | dJ355M6.2-002 | 6 | 37227067 | 37272267 |
| A9 | ENST00000316909 | NM_145316 | 6 | 37229829 | 37233661 |
| A9 | ENSESTT00000035577 | | 6 | 37233261 | 37272786 |
| A9 | OTTHUMT00006006364 | dJ744I24.2-001 | 6 | 37272403 | 37347601 |
| A9 | ENSESTT00000035547 | | 6 | 37272498 | 37294209 |
| A9 | ENST00000229492 | C6orf197 | 6 | 37298967 | 37347600 |
| A9 | ENSESTT00000035548 | | 6 | 37331324 | 37347601 |
| A9 | ENSESTT00000035549 | | 6 | 37331816 | 37339289 |
| A9 | OTTHUMT00006006366 | RNF8-001 | 6 | 37368684 | 37409364 |
| A9 | ENSESTT00000035550 | | 6 | 37368716 | 37386205 |
| A9 | ENST00000229866 | RNF8 | 6 | 37368796 | 37395990 |
| A9 | ENSESTT00000035551 | | 6 | 37383509 | 37405872 |
| A9 | OTTHUMT00006006367 | RNF8-002 | 6 | 37383520 | 37391647 |
| A9 | ENSESTT00000035554 | | 6 | 37383557 | 37405862 |
| A9 | ENSESTT00000035552 | | 6 | 37383557 | 37405872 |
| A9 | ENSESTT00000035553 | | 6 | 37383557 | 37405872 |
| A9 | ENSESTT00000035555 | | 6 | 37391555 | 37405872 |
| A9 | ENSESTT00000035556 | | 6 | 37447848 | 37474233 |
| A9 | OTTHUMT00006006384 | dJ153P14.1-009 | 6 | 37447850 | 37458714 |
| A9 | ENSESTT00000035557 | | 6 | 37447850 | 37474233 |
| A9 | OTTHUMT00006006377 | dJ153P14.1-002 | 6 | 37447851 | 37476692 |
| A9 | OTTHUMT00006006376 | dJ153P14.1-001 | 6 | 37447851 | 37496137 |
| A9 | ENST00000259729 | NM_015050 | 6 | 37450261 | 37496137 |
| A9 | OTTHUMT00006006383 | dJ153P14.1-008 | 6 | 37467109 | 37473320 |
| A9 | ENSESTT00000035558 | | 6 | 37474283 | 37488203 |
| A9 | OTTHUMT00006006378 | dJ153P14.1-003 | 6 | 37474290 | 37476703 |
| A9 | ENSESTT00000035559 | | 6 | 37474290 | 37476703 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | OTTHUMT00006006380 | dJ153P14.1-005 | 6 | 37477502 | 37495903 |
| A9 | OTTHUMT00006006379 | dJ153P14.1-004 | 6 | 37488199 | 37493826 |
| A9 | ENSESTT00000035560 | | 6 | 37489154 | 37496138 |
| A9 | ENSESTT00000035561 | | 6 | 37489159 | 37493872 |
| A9 | OTTHUMT00006006382 | dJ153P14.1-007 | 6 | 37489950 | 37497458 |
| A9 | ENSESTT00000035562 | | 6 | 37489950 | 37497460 |
| A9 | OTTHUMT00006006381 | dJ153P14.1-006 | 6 | 37489976 | 37495777 |
| A9 | OTTHUMT00006006394 | dJ153P14.2-001 | 6 | 37497551 | 37514553 |
| A9 | ENSESTT00000035575 | | 6 | 37497563 | 37514525 |
| A9 | ENST00000259975 | Q9P0B6 | 6 | 37497563 | 37514553 |
| A9 | ENSESTT00000035576 | | 6 | 37497569 | 37499495 |
| A9 | ENSESTT00000035574 | | 6 | 37497716 | 37514544 |
| A9 | OTTHUMT00006006395 | dJ153P14.2-002 | 6 | 37497716 | 37514553 |
| A9 | OTTHUMT00006006370 | dJ153P14.3-001 | 6 | 37558184 | 37561386 |
| A9 | ENSESTT00000035573 | | 6 | 37558184 | 37561393 |
| A9 | OTTHUMT00006006372 | dJ153P14.4-001 | 6 | 37561183 | 37562345 |
| A9 | ENSESTT00000035563 | | 6 | 37564634 | 37565497 |
| A9 | OTTHUMT00006006374 | dJ153P14.5-001 | 6 | 37564635 | 37565491 |
| A9 | ENSESTT00000035571 | | 6 | 37651734 | 37660878 |
| A9 | OTTHUMT00006006400 | dJ402N21.2-001 | 6 | 37651734 | 37669174 |
| A9 | ENST00000297153 | MDGA1 | 6 | 37651999 | 37711442 |
| A9 | ENST00000229875 | Q8NBE3 | 6 | 37652690 | 37660859 |
| A9 | ENSESTT00000035572 | | 6 | 37653259 | 37656528 |
| A9 | ENSESTT00000035568 | | 6 | 37663817 | 37669088 |
| A9 | ENSESTT00000035570 | | 6 | 37664502 | 37666973 |
| A9 | ENSESTT00000035569 | | 6 | 37664502 | 37669088 |
| A9 | OTTHUMT00006006398 | dJ402N21.1-001 | 6 | 37670396 | 37711576 |
| A9 | ENSESTT00000035567 | | 6 | 37672943 | 37711576 |
| A9 | OTTHUMT00006006402 | dJ441A12.1-001 | 6 | 37830408 | 37833849 |
| A9 | ENSESTT00000035566 | | 6 | 37833212 | 37833973 |
| A9 | ENSESTT00000035564 | | 6 | 37834162 | 37944634 |
| A9 | OTTHUMT00006006406 | TEX27-001 | 6 | 37834162 | 38169252 |
| A9 | ENSESTT00000035565 | | 6 | 37834188 | 38166902 |
| A9 | ENST00000287218 | TEX27 | 6 | 37834577 | 38167020 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | OTTHUMT00006006407 | TEX27-002 | 6 | 37944570 | 38097088 |
| A9 | ENSESTT00000028267 | | 6 | 38016900 | 38018551 |
| A9 | OTTHUMT00006006404 | bA420A21.1-001 | 6 | 38017463 | 38017944 |
| A9 | OTTHUMT00006006408 | TEX27-003 | 6 | 38076242 | 38077291 |
| A9 | ENSESTT00000028247 | | 6 | 38076350 | 38168417 |
| A9 | OTTHUMT00006006409 | TEX27-004 | 6 | 38131203 | 38156962 |
| A9 | OTTHUMT00006006414 | dJ295F6.2-001 | 6 | 38177432 | 38178435 |
| A9 | OTTHUMT00006006425 | dJ322I12.1-004 | 6 | 38185948 | 38654445 |
| A9 | OTTHUMT00006006416 | dJ322I12.2-001 | 6 | 38188304 | 38191924 |
| A9 | OTTHUMT00006006426 | dJ322I12.1-005 | 6 | 38189588 | 38359724 |
| A9 | ENSESTT00000028266 | | 6 | 38189682 | 38271074 |
| A9 | ENST00000320902 | Q8NAH5 | 6 | 38193995 | 38194495 |
| A9 | OTTHUMT00006006423 | dJ322I12.1-002 | 6 | 38302912 | 38594901 |
| A9 | ENSESTT00000028248 | | 6 | 38496227 | 38497741 |
| A9 | OTTHUMT00006006418 | bA430C17.1-001 | 6 | 38496323 | 38497162 |
| A9 | OTTHUMT00006006422 | dJ322I12.1-001 | 6 | 38592231 | 38610698 |
| A9 | OTTHUMT00006006420 | dJ319M7.2-001 | 6 | 38601954 | 38603160 |
| A9 | ENST00000328403 | BTBD9 | 6 | 38607118 | 38612725 |
| A9 | OTTHUMT00006006424 | dJ322I12.1-003 | 6 | 38608899 | 38654542 |
| A9 | OTTHUMT00006006435 | GLO1-002 | 6 | 38690574 | 38697846 |
| A9 | OTTHUMT00006006434 | GLO1-001 | 6 | 38690574 | 38717772 |
| A9 | ENST00000244746 | GLO1 | 6 | 38690575 | 38717772 |
| A9 | ENSESTT00000028264 | | 6 | 38690577 | 38717784 |
| A9 | ENSESTT00000028262 | | 6 | 38691212 | 38699147 |
| A9 | ENSESTT00000028258 | | 6 | 38691212 | 38717784 |
| A9 | ENSESTT00000028265 | | 6 | 38691212 | 38717784 |
| A9 | ENSESTT00000028263 | | 6 | 38691365 | 38696733 |
| A9 | ENSESTT00000028259 | | 6 | 38696639 | 38717784 |
| A9 | ENSESTT00000028260 | | 6 | 38696641 | 38717784 |
| A9 | ENSESTT00000028261 | | 6 | 38697434 | 38717784 |
| A9 | OTTHUMT00006006432 | dJ503A6.2-001 | 6 | 38728682 | 38729848 |
| A9 | ENSESTT00000028257 | | 6 | 38728682 | 38729848 |
| A9 | ENST00000327475 | Q8IU65 | 6 | 38729972 | 38749145 |
| A9 | OTTHUMT00006012038 | DNAH8-003 | 6 | 38737477 | 38986711 |

TABLE 3 (Continued)

| | | | | | |
|----|--------------------|----------------|---|----------|----------|
| A9 | OTTHUMT00006012037 | DNAH8-002 | 6 | 38737477 | 39045150 |
| A9 | OTTHUMT00006012036 | DNAH8-001 | 6 | 38737753 | 39045156 |
| A9 | ENST00000244699 | DNAH8 | 6 | 38749146 | 39045422 |
| A9 | OTTHUMT00006011850 | dJ217P22.2-001 | 6 | 38777536 | 38779325 |
| A9 | ENSESTT00000028249 | | 6 | 38872332 | 38878623 |
| A9 | OTTHUMT00006012039 | DNAH8-004 | 6 | 38878600 | 38885121 |
| A9 | ENSESTT00000028250 | | 6 | 38887623 | 38888176 |
| A9 | OTTHUMT00006006438 | dJ207H1.3-001 | 6 | 38937660 | 38946002 |
| A9 | OTTHUMT00006006439 | dJ207H1.3-002 | 6 | 38937660 | 38967730 |
| A9 | ENSESTT00000028255 | | 6 | 38939657 | 38948048 |
| A9 | ENSESTT00000028251 | | 6 | 38940722 | 38944241 |
| A9 | OTTHUMT00006011974 | dJ207H1.2-001 | 6 | 38942662 | 38942784 |
| A9 | OTTHUMT00006006440 | dJ207H1.3-003 | 6 | 38943981 | 38947548 |
| A9 | ENSESTT00000028256 | | 6 | 38943981 | 38947548 |
| A9 | ENSESTT00000028254 | | 6 | 38958559 | 38967720 |
| A9 | ENSESTT00000028252 | | 6 | 38966101 | 38988421 |
| A9 | ENSESTT00000028253 | | 6 | 38998885 | 39027120 |
| A9 | ENSESTT00000028268 | | 5 | 39027083 | 39045160 |
| A9 | OTTHUMT00006006452 | dJ202I21.3-001 | 6 | 39054234 | 39054616 |
| A9 | OTTHUMT00006006444 | GLP1R-001 | 6 | 39063429 | 39102374 |
| A9 | ENST00000229900 | GLP1R | 6 | 39063472 | 39100704 |
| A9 | ENSESTT00000028298 | | 6 | 39118691 | 39124040 |
| A9 | ENSESTT00000028296 | | 6 | 39118691 | 39129820 |
| A9 | OTTHUMT00006006446 | dJ202I21.1-001 | 6 | 39118695 | 39124203 |
| A9 | OTTHUMT00006006448 | dJ202I21.1-003 | 6 | 39118695 | 39129820 |
| A9 | ENST00000229903 | C6orf64 | 6 | 39119524 | 39129720 |
| A9 | OTTHUMT00006006454 | dJ202I21.5-001 | 6 | 39124952 | 39127583 |
| A9 | OTTHUMT00006006447 | dJ202I21.1-002 | 6 | 39127706 | 39129702 |
| A9 | ENSESTT00000028297 | | 6 | 39127885 | 39129702 |
| A9 | OTTHUMT00006006456 | KCNK5-001 | 6 | 39203604 | 39244081 |
| A9 | ENST00000297169 | KCNK5 | 6 | 39205521 | 39243742 |
| A9 | ENSESTT00000028294 | | 6 | 39205943 | 39243759 |
| A9 | ENSESTT00000028295 | | 6 | 39208772 | 39243759 |
| A9 | OTTHUMT00006006464 | KCNK17-001 | 6 | 39313632 | 39329053 |

TABLE 3 (Continued)

| | | | | |
|----|---------------------|---|----------|----------|
| A9 | ENSESTT000000028293 | 6 | 39314030 | 39315137 |
| A9 | ENSESTT000000028292 | 6 | 39314058 | 39319209 |
| A9 | ENST00000244759 | 6 | 39314058 | 39328951 |
| A9 | OTTHUMT00006006462 | 6 | 39329336 | 39337171 |
| A9 | ENSESTT000000028290 | 6 | 39329579 | 39337599 |
| A9 | ENST00000211196 | 6 | 39329633 | 39337171 |
| A9 | ENSESTT000000028291 | 6 | 39332507 | 39337185 |
| A9 | ENSESTT000000028289 | 6 | 39350785 | 39358362 |
| A9 | OTTHUMT00006006460 | 6 | 39350785 | 39400304 |
| A9 | ENST00000297170 | 6 | 39358338 | 39445790 |
| A9 | ENST00000229913 | 6 | 39358338 | 39554716 |
| A9 | OTTHUMT00006006458 | 6 | 39368378 | 39368803 |
| A9 | OTTHUMT00006006466 | 6 | 39434570 | 39445946 |
| A9 | OTTHUMT00006006470 | 6 | 39554634 | 39740037 |
| A9 | ENSESTT000000028286 | 6 | 39554831 | 39599605 |
| A9 | ENSESTT000000028284 | 6 | 39554831 | 39601027 |
| A9 | OTTHUMT00006006472 | 6 | 39559134 | 39592907 |
| A9 | ENST00000287152 | 6 | 39559160 | 39739941 |
| A9 | ENSESTT000000028288 | 6 | 39559179 | 39592907 |
| A9 | ENSESTT000000028285 | 6 | 39559179 | 39600971 |
| A9 | OTTHUMT00006006468 | 6 | 39568448 | 39569574 |
| A9 | ENSESTT000000028287 | 6 | 39597804 | 39599586 |
| A9 | OTTHUMT00006006471 | 6 | 39597806 | 39610891 |
| A9 | ENSESTT000000028283 | 6 | 39610746 | 39689117 |
| A9 | OTTHUMT00006006473 | 6 | 39705830 | 39729590 |
| A9 | ENSESTT000000028282 | 6 | 39706266 | 39739928 |
| A9 | ENSESTT000000028269 | 6 | 39807005 | 39879702 |
| A9 | ENST00000274867 | 6 | 39807649 | 39919503 |
| A9 | ENSESTT000000028270 | 6 | 39836736 | 39879669 |
| A9 | ENSESTT000000028271 | 6 | 39863403 | 39875800 |
| A9 | OTTHUMT00006006489 | 6 | 39870878 | 39876106 |
| A9 | OTTHUMT00006006485 | 6 | 39870878 | 39882152 |
| A9 | OTTHUMT00006006484 | 6 | 39870878 | 39919499 |
| A9 | OTTHUMT00006006486 | 6 | 39882351 | 39919496 |

TABLE 3 (Continued)

| | | | | | |
|----|---------------------|---|----------------|----------|----------|
| A9 | ENSESTT000000028272 | 6 | | 39884968 | 39893094 |
| A9 | OTTHUMT00006006487 | 6 | dJ278E11.1-004 | 39887977 | 39893404 |
| A9 | OTTHUMT00006006488 | 6 | dJ278E11.1-005 | 39902036 | 39905992 |
| A9 | OTTHUMT00006006480 | 6 | bA61I13.3-001 | 39903421 | 39911984 |
| A9 | OTTHUMT00006006481 | 6 | bA61I13.3-002 | 39903505 | 39912011 |
| A9 | ENSESTT000000028281 | 6 | | 39903505 | 39912011 |
| A9 | ENSESTT000000028273 | 6 | | 39911507 | 39913571 |
| A9 | ENSESTT000000028274 | 6 | | 39911802 | 39919761 |
| A9 | OTTHUMT00006006478 | 6 | bA61I13.2-001 | 39911971 | 39914702 |
| A9 | ENSESTT000000028279 | 6 | | 39917315 | 39919496 |
| A9 | ENSESTT000000028280 | 6 | | 39917519 | 39918030 |
| A9 | OTTHUMT00006006504 | 6 | MOCs1-005 | 39919690 | 39926973 |
| A9 | OTTHUMT00006006505 | 6 | MOCs1-006 | 39919690 | 39927603 |
| A9 | OTTHUMT00006006506 | 6 | MOCs1-007 | 39919690 | 39927603 |
| A9 | OTTHUMT00006006502 | 6 | MOCs1-003 | 39919690 | 39941994 |
| A9 | OTTHUMT00006006500 | 6 | MOCs1-001 | 39919690 | 39942310 |
| A9 | OTTHUMT00006006501 | 6 | MOCs1-002 | 39919690 | 39949091 |
| A9 | OTTHUMT00006006507 | 6 | MOCs1-008 | 39919690 | 39949106 |
| A9 | ENSESTT000000028275 | 6 | | 39920144 | 39926919 |
| A9 | ENST00000274884 | 6 | MOCs1 | 39920154 | 39949011 |
| A9 | ENST00000308559 | 6 | MOCs1 | 39920988 | 39942172 |
| A9 | ENSESTT000000028278 | 6 | | 39921368 | 39928029 |
| A9 | ENSESTT000000028276 | 6 | | 39924433 | 39949106 |
| A9 | OTTHUMT00006006503 | 6 | MOCs1-004 | 39926863 | 39947026 |
| A9 | ENSESTT000000028277 | 6 | | 39941918 | 39949056 |
| A9 | ENST00000320371 | 6 | | 39973005 | 39973427 |
| A9 | OTTHUMT00006006496 | 6 | | 39973008 | 39973427 |
| A9 | OTTHUMT00006006498 | 6 | dJ278E11.3-001 | 40007409 | 40014827 |
| A9 | ENST00000333628 | 6 | dJ278E11.5-001 | 40014193 | 40014863 |
| A9 | OTTHUMT00006006516 | 6 | bA552E20.1-001 | 40286160 | 40290831 |
| A9 | OTTHUMT00006006524 | 6 | bA535K1.1-003 | 40349548 | 40394479 |
| A9 | OTTHUMT00006006525 | 6 | bA535K1.1-004 | 40355059 | 40394479 |
| A9 | ENSESTT000000026515 | 6 | | 40358936 | 40360627 |
| A9 | OTTHUMT00006006518 | 6 | bA552E20.3-001 | 40358938 | 40360745 |

| | | | | | |
|-----|--------------------|----------------|----|----------|----------|
| A9 | OTTHUMT00006006520 | bA552E20.4-001 | 6 | 40373338 | 40384068 |
| A9 | OTTHUMT00006006522 | bA535K1.1-001 | 6 | 40392931 | 40394479 |
| A9 | OTTHUMT00006006523 | bA535K1.1-002 | 6 | 40392931 | 40394479 |
| A9 | ENSESTT00000026510 | | 6 | 40392944 | 40394492 |
| A9 | ENSESTT00000026509 | | 6 | 40393305 | 40394492 |
| A9 | OTTHUMT00006006532 | bA535K1.2-001 | 6 | 40406180 | 40602059 |
| A9 | ENST00000287126 | Q9ULH4 | 6 | 40406228 | 40601981 |
| A9 | ENSESTT00000026512 | | 6 | 40447652 | 40601916 |
| A9 | OTTHUMT00006006530 | bA121P10.1-001 | 6 | 40516225 | 40516987 |
| A9 | ENSESTT00000026514 | | 6 | 40516225 | 40516987 |
| A9 | OTTHUMT00006006534 | dJ462C17.1-001 | 6 | 40530930 | 40538527 |
| A9 | ENSESTT00000026513 | | 6 | 40530930 | 40538527 |
| A9 | OTTHUMT00006006536 | bA570K4.1-001 | 6 | 40728005 | 40729957 |
| A9 | ENSESTT00000026511 | | 6 | 40728005 | 40729957 |
| A10 | ENSESTT00000052482 | | 18 | 71312402 | 71313353 |
| A10 | ENSESTT00000052481 | | 18 | 71536395 | 71551301 |
| A10 | ENSESTT00000052480 | | 18 | 71962357 | 71963077 |
| A10 | ENSESTT00000056790 | | 18 | 72048442 | 72054756 |
| A10 | ENSESTT00000056791 | | 18 | 72098098 | 72099051 |
| A10 | ENST00000217537 | Y222_HUMAN | 18 | 72199207 | 72334123 |
| A10 | ENSESTT00000056807 | | 18 | 72201199 | 72217929 |
| A10 | ENSESTT00000056806 | | 18 | 72201199 | 72218100 |
| A10 | ENSESTT00000056792 | | 18 | 72276438 | 72279133 |
| A10 | ENSESTT00000056793 | | 18 | 72326067 | 72326639 |
| A10 | ENSESTT00000056794 | | 18 | 72367851 | 72401147 |
| A10 | ENSESTT00000056795 | | 18 | 72688458 | 72707773 |
| A10 | ENST00000253159 | ZNF236 | 18 | 72688458 | 72774998 |
| A10 | ENST00000320610 | ZNF236 | 18 | 72688458 | 72807272 |
| A10 | ENSESTT00000056797 | | 18 | 72717002 | 72734201 |
| A10 | ENSESTT00000056796 | | 18 | 72717002 | 72734313 |
| A10 | ENSESTT00000056798 | | 18 | 72737983 | 72747435 |
| A10 | ENSESTT00000056799 | | 18 | 72815875 | 72819321 |
| A10 | ENST00000318747 | MBP | 18 | 72817767 | 72855988 |
| A10 | ENSESTT00000056804 | | 18 | 72819098 | 72855989 |

TABLE 3 (Continued)

| | | | | |
|-----|---------------------|----|----------|----------|
| A10 | ENSESTT000000056803 | 18 | 72819230 | 72856028 |
| A10 | ENSESTT000000056805 | 18 | 72819273 | 72855988 |
| A10 | ENST00000281193 | 18 | 72819360 | 72828993 |
| A10 | ENSESTT000000056800 | 18 | 72820171 | 72823085 |
| A10 | ENSESTT000000056801 | 18 | 72820171 | 72823085 |
| A10 | ENSESTT000000056802 | 18 | 72855561 | 72905291 |
| A10 | ENST00000309607 | 18 | 72867119 | 72867493 |
| A10 | ENST00000299727 | 18 | 73088710 | 73109070 |
| A10 | ENSESTT000000052501 | 18 | 73089280 | 73095131 |
| A10 | ENSESTT000000052502 | 18 | 73092673 | 73095150 |
| A10 | ENSESTT000000052503 | 18 | 73461485 | 73463448 |
| A10 | ENSESTT000000052478 | 18 | 74655974 | 74657295 |
| A10 | ENSESTT000000052477 | 18 | 74836231 | 74837820 |
| A10 | ENST00000299466 | 18 | 74839252 | 74857165 |
| A10 | ENSESTT000000052474 | 18 | 74853768 | 74856489 |
| A10 | ENSESTT000000052475 | 18 | 74854402 | 74861654 |
| A10 | ENST00000307671 | 18 | 74928369 | 75236360 |
| A10 | ENSESTT000000052476 | 18 | 74928431 | 74972951 |
| A10 | ENSESTT000000065967 | 18 | 75162658 | 75191977 |
| A10 | ENSESTT000000065966 | 18 | 75162658 | 75191981 |
| A10 | ENSESTT000000065968 | 18 | 75195603 | 75237133 |
| A10 | ENSESTT000000065969 | 18 | 75203116 | 75204817 |
| A10 | ENSESTT000000065970 | 18 | 75203163 | 75237133 |
| A10 | ENST00000253506 | 18 | 75254749 | 75345913 |
| A10 | ENSESTT000000065971 | 18 | 75255250 | 75270171 |
| A10 | ENST00000329101 | 18 | 75259369 | 75345913 |
| A10 | ENSESTT000000065975 | 18 | 75270434 | 75311108 |
| A10 | ENSESTT000000065973 | 18 | 75270434 | 75327154 |
| A10 | ENSESTT000000065974 | 18 | 75270434 | 75327154 |
| A10 | ENSESTT000000065972 | 18 | 75270434 | 75345394 |
| A10 | ENSESTT000000065976 | 18 | 75306857 | 75310062 |
| A10 | ENSESTT000000065977 | 18 | 75307549 | 75310062 |
| A10 | ENSESTT000000065978 | 18 | 75310647 | 75327154 |
| A10 | ENST00000334423 | 18 | 75314345 | 75314808 |

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TABLE 3 (Continued)

| | | | | |
|-----|---------------------|----|----------|----------|
| A10 | ENST000000334083 | 18 | 75363755 | 75810501 |
| A10 | ENST000000333925 | 18 | 75363758 | 75550986 |
| A10 | ENSESTT000000065979 | 18 | 75386139 | 75387291 |
| A10 | ENSESTT000000066012 | 18 | 75386888 | 75388300 |
| A10 | ENSESTT000000066011 | 18 | 75403966 | 75404501 |
| A10 | ENST000000327986 | 18 | 75415199 | 75415865 |
| A10 | ENST000000317008 | 18 | 75500963 | 75538593 |
| A10 | ENST000000299543 | 18 | 75538778 | 75613484 |
| A10 | ENST00000075430 | 18 | 75538925 | 75595497 |
| A10 | ENSESTT000000066010 | 18 | 75561698 | 75562628 |
| A10 | ENSESTT000000065980 | 18 | 75563836 | 75573932 |
| A10 | ENSESTT000000065981 | 18 | 75573941 | 75613484 |
| A10 | ENSESTT000000065982 | 18 | 75588015 | 75613484 |
| A10 | ENSESTT000000065983 | 18 | 75594535 | 75613484 |
| A10 | ENST000000316249 | 18 | 75722645 | 75758793 |
| A10 | ENSESTT000000066009 | 18 | 75761442 | 75762272 |
| A10 | ENSESTT000000066008 | 18 | 75761446 | 75762510 |
| A10 | ENST000000316111 | 18 | 75761465 | 75810007 |
| A10 | ENSESTT000000066004 | 18 | 75762569 | 75809829 |
| A10 | ENSESTT000000066005 | 18 | 75762569 | 75809829 |
| A10 | ENSESTT000000066002 | 18 | 75762569 | 75809842 |
| A10 | ENSESTT000000065999 | 18 | 75762569 | 75809843 |
| A10 | ENSESTT000000066000 | 18 | 75762569 | 75809843 |
| A10 | ENSESTT000000066006 | 18 | 75762650 | 75809829 |
| A10 | ENSESTT000000066001 | 18 | 75762650 | 75809843 |
| A10 | ENST000000262199 | 18 | 75762953 | 75802393 |
| A10 | ENSESTT000000066003 | 18 | 75763093 | 75809836 |
| A10 | ENSESTT000000066007 | 18 | 75774508 | 75775293 |
| A10 | ENSESTT000000065984 | 18 | 75823637 | 75826139 |
| A10 | ENSESTT000000065998 | 18 | 75825557 | 75831889 |
| A10 | ENST000000269601 | 18 | 75831846 | 75847511 |
| A10 | ENSESTT000000065996 | 18 | 75832383 | 75836894 |
| A10 | ENSESTT000000065991 | 18 | 75832383 | 75847550 |
| A10 | ENSESTT000000065993 | 18 | 75832384 | 75847452 |

TABLE 3 (Continued)

| | | | | | |
|-----|---------------------|-----------|----|----------|----------|
| A10 | ENSESTT000000065995 | | 18 | 75832396 | 75847330 |
| A10 | ENSESTT000000065994 | | 18 | 75832490 | 75847391 |
| A10 | ENSESTT000000065997 | | 18 | 75832541 | 75835766 |
| A10 | ENSESTT000000065992 | | 18 | 75832715 | 75847514 |
| A10 | ENST00000306735 | NM_024805 | 18 | 75893335 | 75905364 |
| A10 | ENSESTT000000065986 | | 18 | 75893389 | 75901198 |
| A10 | ENSESTT000000065985 | | 18 | 75893389 | 75905374 |
| A10 | ENSESTT000000065990 | | 18 | 75893434 | 75905357 |
| A10 | ENST00000262197 | Q8WZ65 | 18 | 75893473 | 75904914 |
| A10 | ENSESTT000000065987 | | 18 | 75896424 | 75905374 |
| A10 | ENSESTT000000065988 | | 18 | 75926233 | 75938117 |
| A10 | ENST00000262198 | NM_014913 | 18 | 75966162 | 75997201 |
| A10 | ENSESTT000000065989 | | 18 | 75989961 | 75992868 |
| A10 | ENSESTT000000052575 | | 18 | 76004909 | 76006133 |
| A10 | ENST00000314741 | PARD6G | 18 | 76016631 | 76104208 |
| A10 | ENSESTT000000052576 | | 18 | 76016997 | 76104406 |
| A10 | ENSESTT000000052577 | | 18 | 76039710 | 76059638 |
| A11 | ENST00000319217.1 | MPDZ | 9 | 13096497 | 13240357 |
| A11 | ENST00000319198.3 | MPDZ | 9 | 13096497 | 13240357 |
| A11 | ENST00000276902.1 | NFIB | 9 | 14077605 | 14297550 |
| A11 | ENST00000331870.1 | | 9 | 14194247 | 14194570 |
| A11 | ENST00000324876.2 | NM_178566 | 9 | 14607036 | 14683474 |
| A11 | ENST00000276911.1 | CER1 | 9 | 14710088 | 14712670 |
| A11 | ENST00000297595.3 | NM_144966 | 9 | 14727207 | 14900993 |
| A11 | ENST00000324457.3 | NM_144966 | 9 | 14727207 | 14900993 |
| A11 | ENST00000297593.1 | NM_144966 | 9 | 14727207 | 14900993 |
| A11 | ENST00000297615.2 | NM_152574 | 9 | 15161561 | 15297250 |
| A11 | ENST00000336042.1 | NM_152574 | 9 | 15161561 | 15297250 |
| A11 | ENST00000297627.1 | SNAPC3 | 9 | 15412732 | 15455830 |
| A11 | ENST00000336277.1 | SNAPC3 | 9 | 15412732 | 15455830 |
| A11 | ENST00000297635.1 | PSIP2 | 9 | 15454067 | 15500982 |
| A11 | ENST00000285482.4 | | 9 | 15542895 | 15613411 |
| A11 | ENST00000297641.1 | NM_173550 | 9 | 15734586 | 15961895 |
| A11 | ENST00000318677.2 | NM_173550 | 9 | 15734586 | 15961895 |

TABLE 3 (Continued)

| | | | | | |
|-----|--------------------|-----------|---|----------|----------|
| A11 | ENST000000309604.2 | NM_017637 | 9 | 16408579 | 16427061 |
| A11 | ENST000000317612.2 | NM_017637 | 9 | 16408579 | 16427061 |
| A11 | ENST000000316584.1 | NM_152576 | 9 | 16517183 | 16517287 |
| A11 | ENST000000297642.1 | NM_017738 | 9 | 17125064 | 17485003 |
| A11 | ENST000000262360.2 | NM_017738 | 9 | 17125064 | 17485003 |

WHAT IS CLAIMED IS:

1. A method for identifying an antineoplastic agent, comprising:
 - (a) contacting a test compound with a cell that expresses one or more
5 amplicons of Table 2 having an amplification ratio of at least 2.0; and
 - (b) determining a change in said amplification ratio due to said contacting;
wherein a change in said amplification ratio due to said contacting
indicates that said test compound has gene modulating activity
thereby identifying said test compound as a gene modulating agent.
10
2. The method of claim 1 wherein said change in expression is a decrease
in expression.
3. The method of claim 2 wherein said decrease in expression is a
15 decrease in copy number of the gene.
4. The method of claim 1 wherein said cell was genetically engineered to
express said amplicon.
- 20 5. A method for identifying an antineoplastic agent, comprising:
 - (a) contacting a test compound with a cell that expresses at least one
gene corresponding to a polynucleotide comprising a nucleotide sequence of
Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said
gene; and
 - 25 (b) determining a change in expression of said gene as a result of said
contacting
wherein a change in expression indicates gene modulation thereby
identifying said test compound as a gene modulating agent.
- 30 6. The method of claim 5 wherein said change in expression is a decrease
in expression.

7. The method of claim 5 wherein said decrease in expression is a decrease in copy number of the gene.

8. The method of claim 5 wherein said gene comprises a nucleotide
5 sequence of one of Genes 1 – 3049 of Figure 1.

9. The method of claim 5 wherein said cell was genetically engineered to express said gene.

10. A method for detecting the cancerous status of a cell, comprising
10 detecting elevated expression in said cell of at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 – 3049 of Figure 1 whereby such elevated expression is indicative of cancerous status of the cell.

11. The method of claim 10 wherein said elevated expression is an
15 elevated copy number of the gene.

12. A method for identifying a compound as an anti-neoplastic agent, comprising:

20 (a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

(b) determining a change in a biological activity of said polypeptide due to said contacting,

wherein a change in activity indicates anti-neoplastic activity and thereby
25 identifies such test compound as an agent having antineoplastic activity.

13. The method of claim 12 wherein said change in biological activity is a decrease in biological activity.

14. The method of claim 12 wherein said biological activity is an enzyme
30 activity.

15. The method of claim 14 wherein said enzyme is selected from kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, reductase, carboxylase, transferase, deacetylase and polymerase.

5 16. The method of claim 15 wherein said kinase is a protein kinase.

17. The method of claim 15 wherein said kinase is a serine or threonine kinase.

10 18. The method of claim 15 wherein said kinase is a receptor tyrosine protein kinase.

19. The method of claim 15 wherein said protease is a serine protease, cysteine protease or aspartic acid protease.

15 20. The method of claim 15 wherein said transferase is a methyltransferase.

20 21. The method of claim 20 wherein said methyl transferase is a cytidine methyltransferase or an adenine methyltransferase.

22. The method of claim 15 wherein said deacetylase is a histone deacetylase.

25 23. The method of claim 11 wherein said carboxylase is a γ -carboxylase.

24. The method of claim 15 wherein said peptidase is a zinc peptidase.

30 25. The method of claim 15 wherein said polymerase is a DNA polymerase.

26. The method of claim 15 wherein said polymerase is a RNA polymerase.

5 27. The method of claim 12 wherein said biological activity is a membrane transport activity.

10 28. The method of claim 12 wherein said polypeptide is a cation channel protein, an anion channel protein, a gated-ion channel protein or an ABC transporter protein.

29. The method of claim 12 wherein said polypeptide is an integrin.

15 30. The method of claim 12 wherein said polypeptide is a Cytochrome P450 enzyme.

31. The method of claim 12 wherein said polypeptide is a nuclear hormone receptor.

20 32. The method of claim 12 wherein said biological activity is a receptor activity.

33. The method of claim 12 wherein said receptor is a G-protein-coupled receptor.

25 34. The method of claim 12 wherein said polypeptide is contained in a cell.

30 35. A method for identifying an anti-neoplastic agent comprising contacting a cancerous cell with a compound found to have anti-neoplastic activity in the method of claim 12 under conditions promoting the growth of said cell and detecting a change in the activity of said cancerous cell.

36. The method of claim 35 wherein said change in activity is a decrease in the rate of replication of said cancerous cell.

5 37. The method of claim 35 wherein said change in activity is a decrease in the total number of progeny cells that can be produced by said cancerous cell.

38. The method of claim 35 wherein said change in activity is a decrease in the number of times said cancerous cell can replicate.

10 39. The method of claim 35 wherein said change in activity is the death of said cancerous cell.

40. A method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using the method
15 of claim 1, 5, or 12 and in an amount effective to cause a reduction in cancerous activity of said cell.

41. The method of claim 40 wherein said cancerous cell is contacted *in vivo*.
20

42. The method of claim 40 wherein said reduction in cancerous activity is a decrease in the rate of proliferation of said cancerous cell.

43. The method of claim 40 wherein said reduction in cancerous activity is
25 the death of said cancerous cell.

44. The method of claim 40 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

30 45. A method for treating cancer comprising contacting a cancerous cell with an agent having affinity for an expression product of a gene corresponding

to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1 and in an amount effective to cause a reduction in cancerous activity of said cell.

5 46. The method of claim 45 wherein said expression product is a polypeptide.

47. The method of claim 45 wherein said agent is an antibody.

10 48. A method for monitoring the progress of cancer therapy in a patient comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polypeptide having a sequence selected from Genes 1 – 3049 of Figure 1.

15 49. The method of claim 48 wherein said gene comprises a sequence of Gene 1 – 3049 of Figure 1.

50. The method of claim 48 wherein said cancer therapy is chemotherapy.

20 51. The method of claim 48 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

52. A method for determining the likelihood of success of cancer therapy in a patient, comprising monitoring in a patient undergoing cancer therapy the
25 expression of a gene corresponding to a polynucleotide having a sequence of one or Genes 1 – 3049 of Figure 1 wherein a decrease in said expression prior to completion of said cancer therapy is indicative of a likelihood of success of said cancer therapy.

30 53. The method of claim 52 wherein said gene comprises a sequence of Gene 1-3049 of Figure 1.

54. The method of claim 52 wherein said cancer therapy is chemotherapy.

55. The method of claim 52 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

5

56. A method for producing test data with respect to the anti-neoplastic activity of a compound comprising:

(a) identifying a test compound as having anti-neoplastic activity using a method of claim 12;

10 (b) producing test data with respect to the anti-neoplastic activity of said test compound sufficient to identify the chemical structure of said test compound.

57. A method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

15

(a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

(b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

20

wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment.

58. The method of claim 57 wherein said change in expression is a decrease in expression and said decrease indicates success of said treatment.

25

59. A method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

30

(a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

5 (b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment.

10 60. The method of claim 59 wherein said change in expression is a decrease in expression and said decrease indicates success of said treatment.

ABSTRACT

Methods for identifying antineoplastic agents by using their ability to modify expression of specific genes or the biological activity of polypeptides encoded by such genes, wherein said genes are located in specific chromosomal regions, called amplicons, or regions of interest, and the presence of such amplified regions within a cancerous cell, are disclosed. Also described are methods for diagnosing cancerous, or potentially cancerous, conditions using these methods. Also encompassed are methods involving determining the modulated expression of the genes in these regions of interest (ROIs), or amplicons, as pharmacodynamic/pharmacogenetic/surrogate markers and/or for patient profiling prior to accrual for clinical trials/treatments based on the identification of these genes as validated gene/drug targets in various cancer tissue types.

15

20

25

30

FIGURE 1

Gene 1. >ENST00000334083 cDNA sequence

```
ACGCAGGGCCGGGGCAGTTGGTCGCGGCCTTCAGTCCCCTGGCTTGGTCCTGTGGGGTCC
CCGGCCCGGCACCTCCTCCCGCGAGCCGTGCGCCCCATCCTGGGCCTGCGCCCCCTTCC
CCCGAGCCGTGCGCCCCCATGCTAGGCCCTGTGACCTCCCCCGAACAGTGCGCCCGAT
CCTGGGCCCTGCGCCCCCTCCCCACCCCATCCCGGGGCGCGCTGGACCCCGCCGGCT
AAGCGCACCCGGGCGGTGACCCAGGGGCTTCGCCCCCTCTCGACCCCGGCGCTGGGACC
CCTCCCCAGCCCCCTCCGGGAGCGTCTCGGGACCCCGAGACACCCCGGCTCCTGTG
CCTCCCAGCCCCGCACCTCCTCCTCTGGACCGGCTCCACAAGGCCACCTGGTCAGCAG
CCCACGGAGGCTCCCGTGCAGGGACACCCCTCCCGTGCTGGGCCGGCTCCGGGGCCA
CCCCCTCCTCCTGTGCCCCAGAGCTGCTCACCTGGGGATCTTCCCCCATCCTCTT
CTGGCTCACCGAGCTCGAACCCCCACACTCCCGTCCCAGCTGGGCTGCTCCGACACCC
CACCCCGTGGACATGAGACCGCCAGCACTCAGCGCCACCCCTAGGTGCCTGTAGCCCC
CACACTCCCATCCCAGCCGGGTGCTCCGACACCCCTGCCCTGCAGACATGAGGCCGCCC
AGCACTCAGCACCCGCCCCCTAGCACCACTCCTCCACGCAGCAGTCTCCTGCCTCTTCC
CTCACCCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTC
ACCCAAGGGTCTCATCCACCACCTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACC
CAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCCA
GGGTCTCGTCCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGG
TCTCATCCACCACCTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCT
CCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCA
GCATCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCTCTCACCCAAGGGCCTCCAGCA
CCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCAGCATCA
CCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACT
CCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGTCTCATCCACCACCTCCT
CCCACACAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCC
ACGCAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCACG
CAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCAGCATCACCTCCTCCACGCAG
CAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCACGCAGCAG
TCTCCTGCCTCTTCCATCACCCAAGGGTCTCATCCACCACCTCCTCCACACAGCAGTCT
CCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCACGCAGCAGTCTCCT
GCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCC
TCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCT
```

Gene 2. >ENST00000333925 cDNA sequence

```
GTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGA
GTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCAAGTCCACCCTGGGAGCCGTCCAC
TCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACC
CTGGGAGCCGTCCACTCTTCTCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCC
CACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAG
CCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCG
AGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCAC
TCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCAC
CCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCTGTCCACTGTTCCC
CAGCCCGAGTCTGCCTGGGAAGCTCACCACTCCTCCACGCAGCAGTCTCCTGCCTCT
TCCCTCACCCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCC
CTCACCCAAGGGTCTCATCCACCACCTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTC
ACCCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCA
CAAGGGTCTCGTCCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCA
GGGTCTCATCCACCACCTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCCAAGGG
CCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCT
CCAGCATCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCTCTCACCCAAGGGCCTCCA
GCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCAGCA
TCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGACCA
CCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGTCTCATCCACCACCT
CCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACTCCT
```

FIGURE 1 (CONT'D)

CCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCC
ACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCAGCATCACCTCCTCCCACG
CAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACGCAG
CAGTCTCCTGCCTCTTCCATCACCCAAGGGTCTCATCCACCACCTCCTCCCACACAGCAG
TCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACGCAGCAGTCT
CCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACACAGCAGTCTCCT
GCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCT

Gene 3. >ENST00000299543 cDNA sequence

CTGGGTTGTGTGCGCGGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCGTACCGAC
CGCCCGCCCGCCCTCTGTCCGCGATGGAGGTGCCGGCCGCGGGTTCGCTTCTGCCGAGG
GCGCCCCGACGGCGGCTGTGGCCGAGGTGCGCTGCCCGGGGCCGCGCCGCTGCGCCTGC
TGGAGTGGAGGGTGGCGGCGGGCGCGGCCGTGCGCATCGGCTCGGTGCTGGCCGTGTTG
AGGCCGCGCCCTCCGCGCAGTCTCCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGGGGCT
GCGTGCGCCCCGCGCGGCCGGAACGCAGGCTGAGGTGCGAGCGCGCGGGCGTGGTGCGGG
AGCTGTGCGCGCAGCCGGGCCAGGTGGTTCGCCCCAGGAGCGGTTCTGGTGAGGTTGGAAG
GATGCAGCCACCCGTTGTATGAAAGGCCTGTGTGCTGAATGTGGCCAAGACCTCACCC
AGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGGCGACCGTGTCCATGG
TGCACAGCGTGCCGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGAATTGGACCAGACGT
TGATTACACAACCGAGCAGCACTGTGAGCAGATGTGCAATAAAGGCATCTTTCACTTCC
AGCTGGGCGGGGTGAGCCCATGCTGCACACGCGCCTGCGTCCACACTGCAAGGACTTCC
TGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTACCTTCGGCAGCCGGCTGTACG
CACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTCTCACCGAATATTAT
CAAGGGATGAATGTATTGACCCATTTTCTAAACCGGGAACCTTAGAAATCTCTTTCCTT
GTGGAGACTCAATGGTTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCCA
ATCTGATAACTGTGAAGAAATATGTATACTTCCAGGGCACGGGTGATATGAATGCGCCCC
CTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTCTCGAGGCACTGAGGTCT
CAGAGCCATCTCCGCCCCTGAGAGACCTGAGGGGGTAACGCAGGCCCTGGAGTGGAGC
CCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACCCCGC
GGGACTCACCCCGCCCCGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCCAGGCCC
CCACCAGCAGCCAAGAGCTGGCAGGCGCTCCTGAGCCCCAGGGATCCTGTGCGCAGGGTG
GCCGGGTGGCACCGGGACAGCGGCCTGCCCAGGGTGCCACGGGCACTGACCTGGACTTTG
ACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCTCCTCCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCCAGAGG
GAGCCGGGGCGCTGGCACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCGAGTC
TCCCCGAGAGGCCGAGCCTGGCGCGCATGCCCGGACAAGGAGCCTGAGCTGGGTGGGC
AGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCTGTGCCGACAGGAAGG
AGGCGGAGACCGAGTCACAGAACAGCGAGCTGTGGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGAGACACGGATGAGGATGACCACCTCATCTACC
TGGAGGAGATCCTGGTCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCA
ACAAGGAGATCGAGGAGGCGCCGACATCCGCAAGATCGTGCCGGAGCTCAAGAGCAAGG
TGCTGGCAGACGTGGCCATAATTTTCAGTGGGCTACACCCGACAAACTTCCCGATAGAGA
AGACGCGGGAGCATTACACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGC
TGAGCCCCGACGCCCCTGACAGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACAGAGA
AGGTGCTGCAGGCACAGGAGTGCAGCACCTGCACGTGGTCAACCCTGACTGGCTGTGGA
GCTGCCTGGAGCGCTGGGACAAGGTGGAGGAGCAGCTCTTCCCGCTCAGGGACGATCACA
CCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGGAGGGTGTGCCCCCA
CCGCCTTGTTCCACCCGATGCCGGTTCTTCCCAAGGCCAGCCTGGCCCCGAGGTTGGA
TCTACGACTCCAACACGGGAAGCTCATCAGGACGGGCGCCGGGGGCCCCAGCACCT
CCAGCTCCCTACCCATCCGCCAGGAGCCCTCTTCTTTCAGGTGGACGACATCCTTGGAGA
AGGCAGCGACGACAGCGACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCA
GCCCCGGAAGCCAGGGACCCGACGGGAGCGGACGCTCGGGGCACCTGCGTCCAGCGAGAG
GAGCGCGGCAGGGGGCCGGGGGCCAGAGGCCACAAGAGGAAGCTGAATGAAGAGGACGC
CGCCAGCGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGA

FIGURE 1 (CONT'D)

CGAGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGG
CAGGGACTGAAGCCTGACCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAG
TCTCGGTCCACGCTGCTTTCTTCCCAAAGGACATGTATATTTGCAGAGCTCCACATACAG
AAACACATTATTTTGCAGAAATAGGTGTTTTTAAGAAGTTTACTACAGGAATGTCTACT
TTTGTAAGTGACAGGTGTTAAAGGCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCT
CACGTGGCCCCAGGCTGGTGCGCCCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTTCCC
CTTGTTGTAACAGAGCACATTCTTTAGGGGACGGCTTTGGGGGTCCCACGAGACATGGACT
AGGAGTTTAAGCAGGACAGTGTGCGTGCACGAGCTCCGAGCCCAGCACAGACATGCCTGG
AACCCCCGCGCCTGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGAACGCCGTGACTGT
CGGGCAGCCTGGAGCTTCTGTCAGCCTCCTACGAGGGTCCACGCCACGTGGCCTGGGCT
GCCATCCTGCCGTCTCTCCCACTGGCATCCTGGCAAGGGGCGTTGCTTTTCTGGGCGGC
CTTTTATGTCTTGGAGACACCTGATGTAAAGTTTCTGTAAATCTATTTTCATATCTGACCC
ACCAAACAGATTTCTCTTTAATAAAAATCCTTTTTGTAGTTC

Gene 4. >ENST0000075430 cDNA sequence

GGAAGTCGGCGCGGGCTAGGCGACGGGTGGAAGCCGGTACCGAGAGGAACTACAGCGTCG
CCGCCTGGGTTGTGTGCGCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCCGTAC
CGACCGCCCCGCGCCCTCTGTCCGCGATGGAGGTGCCGCGCGGGTTCGCTTCTGCGC
GAGGGCGCCCCGACGGCGGCTGTGGCCGAGGTGCGCTGCCCGGGGCGCGCCGCTGCGC
CTGCTGGAGTGGAGGGTGGCGGCGGGCGCGCCGTGCGCATCGGCTCGGTGCTGGCCGTG
TTCGAGGCGCGCCCTCCGCGCAGTCCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGG
GGCTGCGTGCSCCCGCGCGGCCGGAACGCAGGCTGAGGTGCGAGCGCGCGGGCGTGGTG
CGGGAGCTGTGCGCGCAGCCGGGCCAGGTGGTTCGCCCCAGGAGCGGTTCTGGTGAGGTTG
GAAGGATGCAGCCACCCGGTTGTTCATGAAAGGCCTGTGTGCTGAATGTGGCCAAGACCTC
ACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGGCGACCGTGTCC
ATGGTGACAGCGTGCCGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGA
GAAGACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGACTTGGACCAG
ACGTTGATTACACAACCGAGCAGCACTGTGACGAGATGTGGAATAAAGGCATCTTTTAC
TTCCAGCTGGGCGGGGTGAGCCCATGCTGCACACGCGCCTGCGTCCCACTGCAAGGAC
TTCCTGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTACCTTCGGCAGCCGGCTG
TACGCACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTTCTCACCGAATA
TTATCAAGGGATGAATGTATTGACCCATTTTCTAAAACGGGAAACCTTAGAAATCTCTTT
CCTTGTGGAGACTCAATGGTTTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCC
CCCAATCTGATAACTGTGAAGAAATATGTATACTTCCAGGGCACGGGTGATATGAATGCG
CCCCCTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTCTCGAGGCACTGAG
GTCTCAGAGCCATCTCCGCCCCGTGAGAGACCTGAGGGGGTAACGCAGGCCCCCTGGAGTG
GAGCCCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACC
CCGCGGGACTCACCCCGCCCCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCCAG
GCCCCACCCAGCAGCCAAGAGCTGGCAGGCGCTCCTGAGCCCCAGGGATCCTGTGCGCAG
GGTGGCCGGGTGGCACCGGGACAGCGGCCTGCCAGGGTGCCACGGGCACTGACCTGGAC
TTTGACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCTCTCTCC
TCCGCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCCA
GAGGGAGCCGGGGCGCTGGCACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCG
AGTCTCCCCGAGAGGCCGAGCCTGGCGCGCATGCCCGGACAAGGAGCCTGAGCTGGGT
GGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCTGTGCCGACAGG
AAGGAGGCGGAGACCGAGTACAGAACAGCGAGCTGTGCGGGGTCACTGCGGGTGAGTCC
CTGGACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATC
TACCTGGAGGAGATCCTGGTCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTAC
CTCAACAAGGAGATCGAGGAGGCGCCGGACATCCGCAAGATCGTGCCGGAGCTCAAGAGC
AAGGTGCTGGCAGACGTGGCCATAATTTTTCAGTGGGCTACACCCGACAACTTCCCGATA
GAGAAGACGCGGGAGCATTACACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTG
GTGCTGAGCCCCGACGCCCCGTGACAGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACA
GAGAAGGTGCTGCAGGCACAGGAGTGCAGGACACCTGCACGTGGTCAACCCTGACTGGCTG
TGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGGAGCAGCTCTTCCCGCTCAGGGACGAT
CACACCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGGAGGGTGTGCC

FIGURE 1 (CONT'D)

CCCACCGCCTTGTTCACCCGATGCCGGTTCTTCCCAAGGCCAGCCTGGCCCCGAGGTT
CGGATCTACGACTCCAACACGGGGAAGCTCATCAGGACGGGCGCCGGGGGCCCCCAGCA
CCCTCCAGCTCCCTACCCATCCGCCAGGAGCCCTCTTCTTTCAGAGCGGTTCCGCCACCC
CAGCCGCAGATGTTTGGTGAAGAGCTGCCTGACGCTCAGGACGGAGAGCAGCCTGGCCCT
TCTAGAAGAAAGCGACAGCCAGTATGTCTGAGACAATGCCGCTGTACACTCTTTGTAAG
GAGGATTTAGAGAGTATGGACAAAGAGGTGGACGACATCCTTGGAGAAGGCAGCGACGAC
AGCGACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCCAGCCCCGGAAGCCA
GGGACCCGCAGGGAGCGGACGCTCGGGGCACCTGCGTCCAGCGAGAGGAGCGCGGCAGGG
GGCCGGGGGCCCCAGAGGCCACAAGAGGAAGCTGAATGAAGAGGACGCCGCCAGCGAGTCC
AGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGACGAGATGGCCAAG
GCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGC
CTGACCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAGTCTCGGTCCACGC
TGCTTTCTTCCCAAAGGACATGTATATTTGCAGAGCTCCACATACAGAAACACATTATTT
TGCAGAAATAGGTGTTTTTAAAGAAGTTTTACTACAGGAATGTCTACTTTTTGTAAGTGACA
GGTGTAAAGGCCCAGGTGTGCTGTGCAAGAGCTCAGCAGAGGCTCACGTGGCCAGG
CTGGTGCGCCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTTCCCCTTGTGTACCAGA
GCACATTCTTAGGGGACGGCTTTGGGGGTCCACGAGACATGGACTAGGAGTTTAAAGCA
GGACAGTGTGCGTGACGAGCTCCGAGCCCAGCACAGACATGCCTGGAACCCCGCCGCC
TGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGAACGCCGTGACTGTGCGGCAGCCTGGA
GCTTCCTGCAGCCTCCTACGCAGGGTCCACGCCACGTGGCCTGGGCTGCCATCCTGCCGT
CCTCCCCTGGCATCCTGGCAAGGGGGCGTTGCTTTTCTGGGCGGCCTTTTATGTCTTG
GAGACACCTGATGTAAAGTTTTCTGTAAATCTATTTTCATATCTGACCCACCAAACAGATTT
CTCTTTAATAAAAATCCTTTTTGT

Gene 5. >ENST00000307671 cDNA sequence

AACACATGAATTTGGAGGGGACAAAAACATTTCAACCGTAGCACCATTTGTCTCCTTTGC
TGCTATTGGAGGGAGAGTCCCAATTTCTCATTAGTTTATGCAGCTTGCTGCTTAGTAATG
ACTTATCAATGACAGTTGAACTTGTAGTTGTATTTGATGAAGGAAATATGCACATTTCT
TTATAGCACTTAGTTTTTGTCTTTGTTTTTCTACTTTATTAACATGCAGGCAAAGTGGGA
GTGTTTTATTTTTAAAGAAGCTTTGAGCATTAGACATGTTTTAAATCTATTTCTTCGTTTA
ATATCAGTTGTCTTCTAAGAAGTGTCTCATCAAAATGGAAACAATAAGGCTTAGATAT
TTAAGATAAAATGTACCAGCTGGAGGATGAGTCTGCGCATTGGATGAAATGCCACTAAT
GATGTCTGAAGAAGGCTTTGAGAATGAGGAAAGTGATTACCACACCTTACCACGAGCCAG
GATAATGCAAAGGAAAAGAGGACTGGAGTGGTTTTGTCTGTGATGGCTGGAAGTTCCTCTG
TACCAGTTGCTGTGGTTGGCTGATAAATATTTGTGCAAGAAAGAAAGAGCTGAAAGCTCG
CACAGTATGGCTTGGATGTCTGAAAAGTGTGAAGAAAAACATCCCAGGAATTCTATAAA
AAATCAAAAATACAATGTGTTTACCTTTTATACCTGGGGTTTTGTATGAACAATTCAAGTT
TTTCTTGAATCTCTATTTTCTAGTAATATCCTGCTCACAGTTTGTACCAGCATTGAAAAT
AGGCTATCTCTACACCTACTGGGCTCCTCTGGGATTTGTCTTGGCTGTTACTATGACACG
GGAAGCAATTGATGAATTTCCGCGTTTTTCAGCGTGACAAGGAAGTGAATTCACAACTATA
TAGCAAGCTTACAGTAAGAGGTAAAGTGCAAGTTAAGAGTTTCAACATACAAGTTGGAGA
CCTCATCATAGTGGAAAAGAATCAAAGAATTCATCGGACATGGTGTCTTCTAGGACTTC
AGAAAAAGCAGGTTTCGTGTTTTATTGAACTGATCAACTAGATGGTGAAACTGACTGGAA
GCTGAAGGTGGCAGTGAGCTGCACGCAACAGCTGCCGGCTCTGGGGGACCTTTTTTCTAT
CAGTGCTTATGTTTATGCTCAGAAACCACAAATGGACATTACAGTTTTCGAAGGCACATT
TACCAGGGAAGACAGTGACCCGCCCATTCATGAAAGTCTCAGCATAGAAAATACATTGTG
GGCAAGCACCATTGTTGCATCAGGTACTGTAATAGGTGTTGTCAATTTATACCGGAAAAGA
GACTCGAAGTGTAATGAACACATCCAATCAAAAAATAAGGTTGGTTTTGTTGGACCTTGA
ACTCAATCGGCTGACGAAAGCGCTATTTTTGGCTTTAGTTGCTCTTTCCATTGTTATGGT
AACCTTACAAGGATTTGTGGGTCCATGGTACCGCAATCTTTTTCGGTTCTTCTCCTCTT
TTCTTACATCATTCCCATAAGTTTGCCTGTGAACTTGGACATGGGCAAAGCGGTGTATGG
ATGGATGATGATGAAAGATGAGAACATCCCTGGCACGGTCTGTTCCGACCAGCACTATCCC
AGAGGAACTTGGGCGCCTGGTGTATTTATTGACAGACAAAACAGGAACCTCACCAGAA
TGAAATGATATTTAAGCGGCTGCACCTGGGCACCGTGTCTATGGCGCCGACACGATGGA
TGAGATCCAGAGCCATGTGAGGACTCCTACTCACAGATGCAGTCTCAAGCTGGTGGAAA

FIGURE 1 (CONT'D)

CAATACTGGTTCAACTCCACTAAGAAAAGCCCAATCTTCAGCTCCCAAAGTTAGGAAAAG
 TGTCACTAGTCGAATCCATGAAGCCGTGAAAGCCATCGTGCTGTGTACAACGTGACCCC
 CGTGTATGAGTCTCGGGCCGGCGTTACTGAGGAGACTGAGTTCGAGAGGCTGACCAAGA
 CTTCACTGATGAGAATCGACCTACCAGGCTTCAGCCCGGATGAGGTGCTCTGGTGCA
 GTGGACAGAGAGTGTGGGCCTCACGCTGGTCAGCAGGGACCTCACCTCCATGCAGCTGAA
 GACCCCACTGGCCAGGTCTCAGCTTCTGCATTCTGCAGCTGTTTCCCTTCACCTCCGA
 GAGCAAGCGGATGGGCGTCATCGTCAGGGATGAATCCACGGCAGAAATCACATTCTACAT
 GAAGGGCGCTGACGTGGCCATGTCTCCTATCGTCAGTATAATGACTGGCTGGAAGAGGA
 GTGCGGAAACATGGCTCGCGAAGGACTGCGGACCCTCGTGTTGCAAAGAAGGCGTTGAC
 AGAGGAGCAGTACCAGGACTTTGAGAGCCGATACACTCAAGCCAAGCTGAGCATGCACGA
 CAGGTCCCTCAAGGTGGCCGCGGTAGTCGAGAGCCTGGAGAGGGAGATGGAAGTCTGTG
 CCTCACCGGCGTGGAGGACCAGCTGCAGGCAGACGTGCGGCCACGCTGGAGATGCTGCG
 CAACGCCGGGATCAAGATATGGATGCTAACAGGCGATAAACTCGAGACAGCTACCTGCAT
 TGCCAAAAGTTACATCTCGTGTCTAGAACAAGATATTATATTTTCAGACAGGTAAC
 CAGTCGGGGAGAGGCACATTTGGAGCTGAATGCATTTTGAAGGAAGCATGATTGTGCACT
 AGTCATATCTGGGACTCTCTGGAGGTTTGTCTAAAGTACTACGAGCATGAATTTGTGGA
 GCTGGCCTGCCAGTGCCCTGCCGTGGTTTGTCTGCCGCTGCTCACCACCCAGAAGGCCCG
 CATTGTGACACTGCTGCAGCAGCACACAGGGAGACGCACCTGCGCCATCGGTGATGGAGG
 AAATGATGTGAGCATGATTAGGCAGCAGACTGTGGGATTGGGATTGAGGGAAAGGAGGG
 TAAACAGGCCTCGCTGGCGGCCGACTTCTCCATCACGCAGTTCGGGCACATAGGCAGGCT
 GCTCATGGTGACGGGCGGAACAGCTACAAGAGGTGGCGGCACTCGGCCAGTTCGTCTAT
 GCACAGGGGCCTTATCATCTCCACCATGCAGGCTGTGTTTTCTCAGTCTTCTACTTCGC
 ATCCGTCCCTTTGTATCAGGGCTTCTCATGGTGGGGTATGCCACCATATACACCATGTT
 CCCAGTGTTCTCCTTAGTGCTGGACCAGGACGTGAAGCCAGAGATGGCGATGCTCTACCC
 GGAGCTGTACAAGGACCTCACCAAGGGAAGATCCTTGTCTTCAAAACCTTCTCATCTG
 GGTTTTAATAAGTATTTACCAAGGCGGCATCCTCATGTATGGGGCCCTGGTGCTCTTGA
 GTCTGAGTTTCGTCCACGTGGTGGCCATCTCCTTACCAGCACTGATCCTGACCGAGCTGCT
 GATGGTGGCGCTGACCGTCCGCACGTGGCACTGGCTGATGGTGGTGGCCGAGTTCCTCAG
 CTTAGGCTGCTACGTGTCCTCACTCGCTTTTCTCAATGAATATTTTGGTATAGGCAGAGT
 GTCTTTTGGAGCTTTCTTAGATGTTGCCTTTATCACCAACCGTGACCTTCTGTGGAAAGT
 GTCGGCGATCACCGTGGTCAGCTGCCTCCCGCTGTATGTCTCAAGTACCTGAGGCGCAA
 GCTCTCTCCTCCAGCTACTGCAAGCTGGCCTCCTAA

Gene 6. >ENST00000299727 cDNA sequence

ATCCCGCTAGAATCCGTCCAGTCTCTGCTCGCGCACCGTGACTTCTAAGGGGCGCGGATT
 TCAGCCGAGCTGTTTTTCGCCTCTCAGTTGCAGCAGAGAAGCCCTGGCACCCGACTCTAT
 CCACCACCAGGAAGCCTCCCAAAGAGCTCTCGCCCTGTGGACGACTCGGAATCCCTGGA
 AAAGCCGGGAGGGAGTCGGAGGCGCCAGCCCACTGGGGAGGTGGCGCTGGGCGCGCGGGA
 TGGCGGGGAGCCTTCTCTGCAGGAGCCGCACAGTGCACTGCTGCGCGCTGGGCAGTGCG
 GGAAGCGCCGCGGAAGGAGCGGCTCCGAGCAACAGGTGCAGCACGCAGCCCTCCGGG
 AGCCAGGGAACCCGCGCGGAAGATCTGGAGCGGTAAGGCGGAGAGAAGGGTCTTTCCA
 CCTGCGCGGCTGCAGCCGGCGGATCCCTCTTCCCAGGCTCCGTGGTTCGCGCAGCGGGCGG
 AGGCGCCCGGGAAGGGGACCCCACTGCTCTCGAGATCACCGTCCCTTCCCGAGAAGGTCC
 AGCTCCGGGCTCCCGAACCCACCTCTCTCAGAAGGTCCCGGCGCAAAGACGGTGCCACC
 AGGCACGGCCACCGATCCCGCTCCCGCTGGCTCGCGCTCGGGGGAAGCTCAGACTCC
 TAAACTCGCACTCTCCGTGCTTTGCGCCGGGACCCCTGGCCACCCCGGCGCCTACTATC
 CCGCCCTCCCTCCCGCGCGCCCGCGCTCGCCGGGACAGCCCGCGGGCCATGGAGCT
 GCGGCTCGGGAACCTCAGCGAGGGCAACGCGAGCTGGCCGGAGCCCCCGCCCGGAGCC
 CGGGCCGCTGTTCCGCATCGGCGTGGAGAACTTCGTACGCTGGTGGTGTTCGGCCTGAT
 CTTTCGCGCTGGGTGTGCTGGGCAACAGCCTAGTGATCACCGTGTGGCGCGCAGCAAGCC
 GGGCAAGCCGCGGAGCACCAACCTGTTTCTCAACCTGAGCATCGCCGACCTGGC
 CTACCTGCTCTTCTGCATCCCTTCCAGGCCACCGTGTACGCGCTGCCACCTGGGTGCT
 GGGCGCCTTCTCTGCAAGTTTCTCACTACTTCTTACCGTGTCCATGCTGGTGGAGCAT
 CTTACCCCTGGCCGCGATGTCCGTGGACCGCTACGTGGCCATCGTGCACTCGCGGCGCTC
 CTCCTCCCTCAGGGTGTCCCGCAACGCGCTGCTGGGCGTGGGCTGCATCTGGGCGCTGTC

FIGURE 1 (CONT'D)

CATTGCCATGGCCTCGCCCGTGGCCTACCAACAGGGCCTCTTCCACCCGCGCGCCAGCAA
 CCAGACCTTCTGCTGGGAGCAGTGGCCCCGACCCTCGCCACAAGAAGGCCTACGTGGTGTG
 CACCTTCGTCTTCGGCTACCTGCTGCCGCTCCTGCTCATCTGCTTCTGCTATGCCAAGGT
 CCTTAATCACTTGCATAAAAAAGTTGAAGAACATGTCAAAGAAGTCTGAAGCATCCAAGAA
 AAAGACTGCACAGACAGTTCTGGTGGTGGTTGTGGTGTGTTGGAATCTCCTGGCTGCCGCA
 CCACATCATCCATCTCTGGGCTGAGTTTGGAGTTTTCCCGCTGACGCCGGCTTCCTTCCT
 CTTCAGAATCACCGCCCACTGCCTGGCGTACAGCAATTCTCCGTGAATCCTATCATTTA
 TGCATTTCTCTCTGAAAATTTTCAAGGAAGGCCTATAAAACAAGTGTTCAAGTGTACATTTCG
 CAAAGATTACACCTGAGTGATACTAAAGAAAGTAAAGTCAATAGACACCCCAACATC
 AACCAATTGTACTCATGTGTGATAAAAGATAGAGTATCCTTATGGTTGAGTTTCCATATA
 AGTGACCAGACACAGAAACAAACAGAATGAGCTAGTAAGCGATGCTGCAACTTGTTATC
 TTAACAAGAATTCAAGTCGTTTTAATTAAATCCCACGTGTGTTAAAAAGTACTTTGATCC
 ATTTAGGAAATTCCTAGGTCTAGTGAGAATTATTTTTCAATTTTATTTTAGTTCTAAATT
 ATGTTTTAGAAACAAAAGACAATGCTGTACAGTTTTATTCTCTTCAGACATGAAAGGGA
 ACATATATATTCATATATATGTTCAACTCTTCATAGATTGTGAACTGGCCCATCAATAT
 GGTGAGGAATATTTGCAGTCTACATTTTAAAGCCAATTTATTTAGAAAAAAAATTTGAG
 CTTTAATTCTTTAATTTTAAAGAGAAGTAATATTGTGAACTATGTATTTTAAATATGATC
 ATGGACACACAATGATGAATTTTTTGGCCATTTACATAGACATATCTATTAAGTGAAAG
 AAGGCTTTCTGAAGTCTGTTTGCACAGGTGGCATTGCTTCCAATTGTAGCTAGCGACA
 GAGCTTTGGAAGCCTGTCTATTATGAGATACAGTCGGTTTACCTCAGGAGTCAATTGAGTG
 TTGTACTGGTGACCTGGGATGCAGTAGTAGGCACTGTTGATTCAAATTTATCCTGTGAAA
 CTGGCTTTATAGAGTTAACAAAACAGAGTCAGAGACCACTGTCTTAACAGTGGAAGATGC
 AAATAAGTTTTTGAAGAATAAACTGGATTTTGAAATTTTACATTAGTACTTGACAAAAGT
 TTTTATTTTGCCTTGAATGGAACCTACTAAAAAGAGAGATGAAAAAATCAGCGAGGTT
 GATGTAGATAATAATTTCTATGGGACCAAGACTAGACAGAATTGAGTAAGTCACATGAA
 GTAATGGTCATGCCTGTACATAAAGCATATTTTATGTTTGAATTTAGATGACATTCAAAAA
 AAATCATGGGACTGAATATACCTGGGGTATCCTATCTTGTACAAATGCATGCTTTTTTCAT
 TAAATTTGTAATGATGTTTAAATGAACATTTCCACCAAACATTATTTCTCTAAAAATGTT
 AATTTGGGGTTAAAACCATCACCATTTGAATTTCAAATGTAGTTTTTATGACAATTTTAT
 ATTGATGTGTGTTTACAATGAGAAAATGGCATGAAAATATTAAATTGTCTGTATCG

Gene 7. >ENST00000317008 cDNA sequence

ATGCAACGCGGGCCGCTGTGCGCCAGTCCCAGTGACGGTCTTGGCGCGCTCGGAACTACG
 TATCCCGGCGTGCACCGCGGACAGAGCATGGCGGGACTACGAGTCCCAGCGTTCAACGCA
 GGCCTGCGTGCCATTACCCCATCACGCGCTGAGACCCAGCATCCCAGAGACTACGAGTTCC
 GGCATGCACCGCGAGCCGCTCTCCTCCACTCCCATCGCGCACTGGGAAGGCGCCAGTCC
 CCAGGAGCACAATCTGTCTGGCCATGCTTGTCCACCGAACTGCAGCTTACACTCTGCAG
 GTCCTGGAGCCCAAGAAAGACCCCGGGAGGGAGCTCCCGGCCACGCCAGGTCTGGGGCC
 CCGGCGAGGCAGCCATCACCACTTTCACAGCATCCGACAGACAATGCCGGCAAAACCCAGC
 CTGGTAAAGAGGGAGAGAAGGAACAGGCTTTGGCAAGAGAGGCGCCGTGGTTTCCCCAG
 AGAACACAGTGGAAGACTTCCGAAGGGCCAGGTTCTCCTCAGGGCGGAGGGGGCGGCGC
 TGA

Gene 8. >ENST00000217537 cDNA sequence

CGGGGCGTGCGCGTCTCTCTCCCGAGGCCCGCCGCTCCCTGCCAAGAATCTGAGAGAGG
 CCGAGTGGAGTTGCGTCTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAATGG
 GAGCGTTGTGATTGCATTTCCACATTCCCAGGAAAGCCAGGTGCTGGCTGCCAGCTGCT
 GCGCCCCCATGTAGAAGGTGCACCTCCTGGGAGCAGGCACGTCTTTTGGCTCTTCTGAC
 CATGGAGAGATAGGACGGTCCCTGCAGCCCGCGCGACAGAAAGCTGTGCCGCCACACCG
 GCCGCGCCCGTCTTTCGGATGGATCGCAACAGAGAGGCGGAGATGGAGCTGAGGCGAGGC
 CCCAGCCCCACAGGGCCGGCCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCAC
 ACCTGCTGCATCTGCGGCAAGAGCTTCCCCTTCCAGAGCTCGCTTTCGAGCACATGCGC
 AAGCACACGGGCGAGAAGCCCTACAAGTGTCCCTACTGCGACCACCGGGCTTCCAGAAG
 GGCAACCTGAAGATTCATCCGGAGCCACCGCACGGGGACTCTGATTGAGGGACACGAG
 CCGGAGGCGGGCGAGGCGCCGTGGGTGAGATGCGCGCCTCCGAGGGCCTGGACGCCTGC
 GCCAGCCCCACCAAGAGCGCCTCGGCCTGCAACCGGCTGCTGAACGGGGCCTCGCAGGCC

FIGURE 1 (CONT'D)

GACGGCGCCAGGGTCTCTGAACGGGGCCTCGCAGGCCGACAGCGGCAGAGTCTTGCTGCGG
AGCAGCAAGAAGGGGGCAGAGGGGTCCGCATGCGCCCCGGGGGAGGCCAAGGCAGCGGT
CAGTGCTCCTTCTGCAAGAGCCAGTTTCGAGCGTAAGAAGGACCTGGAGCTGCACGTGCAC
CAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCTGCGGGAGGAGTCG
CTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGGCCCGGCAGCGGCAGGGCC
TGCGTGGAGAACGGCAAGCCCGAGCTGAGCCCCGGGGAGTTCCCGTGCGAGGTGTGTGGC
CAGGCCCTTCAGCCAGACCTGGTTCTCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTC
GACCACGGCTGCCACATCTGCGGCCGTAGGTTCAAGGAGCCCTGGTTCTCTCAAGAACCAC
ATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAACAGGCCAAGAGTGAGCTGGACCCC
ATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTAC
GAGGTCTGCGCCAAGTGCGGGAACCTGTTTACAAACCTGGACAGCTTGAACGCCCCAAT
GCCATCCACCGCAGAGTCGAGGCCAGCCGCACGCGCGCCCCGGCCGAGGAGGGGGCGGAG
GGGCCCTCGGACACCAAGCAGTTCTTCTCAGTGCTGAACCTGAGGCCGTGCGCGGCC
GGCGACTCGTGCCCTGGCACGCAGGCCGGACGGCGGGTGGCTGAGCTGGACCCGGTCAAC
AGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAAGGTGGCCGAGCCGGCCGAGTACCTC
AAGTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGC
GAGTACGTCTGGTGAGCCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAG
GGGCCCCCGCGGAAGCGCGCGAGCGGGCCTGGGGACCCCGCGCCCGCGGCCACCTCGAT
CCCCGCTCGGCCGCGCGCCCCAACCGCAGGGCCGAGCCACCACGGCCAGGGCAAGTCC
TCCGAGTGCTTCGAGTGCGGCAAGATCTTCCGCACCTATCATCAGATGGTGCTGCACTCA
CGCGTGATCGCCGCGCGCGCCGCGAGAGGGACAGTGACGGGGACAGGGCGGGCGGGGCC
CGCTGCGGATCACTCAGTGAGGGTGACTCGGCCTCCAGCCAGCAGCCCTGGCTCCGCC
TGTGCCGCTGCTGACTCCCCGGGCTCTGGCCTGGCCGACGAGGCTGCCGAAGACAGTGGT
GAGGAGGGCGCCCCTGAACCTGCACCAGGGGGACAGCCGCGCCGCTGCTGCTTTTCCGAA
GAGGTGACTTCGACCGAGCTCTCCAGTGAGAGACCAGAGTCACAAGATGGGAGATAACGCC
TCGGAAAGAGACACCGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTTGAA
AACAGTAGCAGAGAGACTTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAG
ATGCCAGCATTTTACCCCAAGCAGGAGGTGCCCCGTCCCTGGTGATGGTGTTGGAGTTCCCT
TCCAGTACGGGAGCGGAGGGCCAGACGGGTCAACCTGCAGAAAAGCTGTCCGATTTGCAC
AACAAGGAACACTCTGGGGGAGGGAAGCGGGCGCTGGCCCCAGACCTCATGCCGCTAGAT
TTAAGTGCGAGGTGCAGCGGGATGACCCCAGCAATAAGGAGACGGCCTCCTCCCTGCAG
GCGGCTTTTAGTCGTTTACCCGTGTCTTACTGCAGCCACAAGACCTACTACCCCGAGGTC
CTGTGGATGCACAAACGCATCTGGCACCCGCTCAGCTGCAACTCCGTGGCTCCCCCGTGG
ATTACGCCCAATGGTTACAAAAGCATCAGAAGCAATTTGGTTTTCTTTCCCGGAGCGGA
CGCACGGGGCCCCCGCCTGCCCTCGGTGGCAAAGAATGCCAGCCTTTGCTCCTTGCTCGG
TTCACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCTG
GGAGTGGTCACAAAAGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGGAGGTCCC
TGCGCTCTGTGGGCGCCCCGGCCCTGACGGGTATCGACAGACCAAACCTTGTACGGCCAG
GAGCCACATGGCGCGGCCACACAGGGGCCCTGGCCAAGCCCAGGCAGGAGGCTAGCTCC
AAACCGGTGCCTGCCCCGGGTGGCGGGGGCTTCAGCAGGAGCGCCACCCCTACGCCCACC
GTCATCGCCCCGGGTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTTGGG
GTCCCCCAGCGGGGGCTGGCTTTGCCCCCACAATAAGCACAGTGCCCCGGACTCCCTG
AAAGCCAAATTAGTGCTCAGCCTCAGGGTCCACCTCCTGCAAAGGGCGAAGGGGGCGCT
CCTCCTCTACCTCCCCGCGAGCCCCCTCGAAGGCAGCCCAGGAGCTGAGGACTCTGGCC
ACCTGTGCTGCGGGGTCCAGGGGCGACGCGGCCTTGACGGCCAGCCCGGCGTGGCTGGG
CCCCCGCTCCTACACTCCATCAAACAGGAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTG
GACATCCTCAACATCTTTAAGACGTACATTCCAAAGGACTTTGCGACCTCTACCAGGGA
TGGGGTGTGAGCGGCCCTGGGTGGAGCACAGAGGGACACTCCGGACGCAGGCCCGGCCA
GGAGAGTTCTGTGTCATCGAGTGCGGAAAGAGCTTCCACCAGCCCGGCCACCTCAGGGCC
CACATGCGGGCACACTCAGTGGTGTTTGAGTCCGATGGGCCTCGGGGTCTGAAGTTCAT
ACCACCTCCGCGAGACGCCCCCAAACAAGGGAGAGACCATTCTAACACAGGTACCGTCCAG
ACAGTGCCCTCTGAGAAAGGGAACCTAAAGGCGTGTTCGACGCACCCAGGTCCCCGTA
ACGGCCATTAGCAGTACCCTCACGATGTCCAGCAGCCTCCACCTGTGACCTGGCCGCT
CCATGGAAGAACAGCCGGGGAACCTCTGAGCAGACACCTCACATCCCGAGCCGCTGCGCT

FIGURE 1 (CONT'D)

GGAGTGGAACCTGAAGGCAGATGCCTCTCCTTGTTAAACGTTTCAAGAAATAAATGAAGATG
CTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGT
CCCATATTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCT
GTCTTATTCAAGACAAGTTTTGAGACACTGGAAAAAAGATACTTGTTGTGTGTGTTGGAC
AGAGTGCGCAGGCTGAGCACTGTACAGGGGCCTCCCATGTTAAGAGGGACTGTGGGGAT
GATGTGAGAACAAAGACGTGGTGGATTTGAGGTTGATCGAGTATTAATACTACTGCCTCTC
CTTGCTCTTAGTGGGTATTTAAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTTCAAGT
GCTGTGGGAAGCAGGCTTGGCGGAGGGGTATGATGATGAGACCCTCATTGTTCACTGGCT
CCATCGCACTCCTCCCTGGGGCCGTGTGCCTGTTCCATTCTTCCCACCATTTCGAAGTGAAG
CGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCGTAGATTCCGCCTCGGAAGAGAGCT
AGCGCAACACTAAGAAAAGCAGGCTTCTTGTTTATTCTCAGGACCTTTTTGTAAACAGGGC
TACATTCTGCAAAGTCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACT
GAGTCTCCCGATTTCGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTTCAAG
TGCCCTAGATGACTAGGGTGCTGAGCTCTGGCGCCTTCTGTCCCCACTCTTGCCTCCCC
GCCCCCTTCCCTGAGCCACCCAGCAAGTGGGTGTCTTTCTCCCTGGGCCTGGTGACCTC
CACAGGATGAGTGACTTTGTTTATAAAGGGTGGGGATCACCAGCCCCCTTGGGTGGGGGAC
GGCTTCATATACCTCTTCTCAGTAATGCAATGCGAGTTTTTGTGGTGGGGGTAAAGGC
CCATAACAAAGGATCTTAAACCATGCAAGTGTACGCAATTGAAATGGTATTCCACAGATAT
AAATATTTTCTTTTCCATTGCGGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTT
CAGATTTTTGCACATATGATTTTATGCATTATCAAAAGTTACTGCTGCCTTGAATGAAAA
TGTTCTGTGAAATTTTTTGCAAAAGCTTTACTAGGTTTTTTTTTAATTGTGAAATTTTTGT
AAAGGCAGGAAATGGATTAAACGAGCATGCTAAATATATTTTTTCAAAAAGCAATAATT
TTACATGTACAGAAATTATCCTAACCTTTAATACTGGCGAGAGCAACAGTTTACTTAATA
CGGTAATGGACTAGTGAGTTTTTGTAGACAGTGGGCTTCTGATACAAAGTCTTGTTTTAA
ACACAGACACACACACACACAAACACACACACACACCCTAAAGTGTGGGTTTTCTGTTCT
AATGATTTGTTGAATATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT
TTAGTAATGTTTGGTTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTTCA
GTTACTTTGCAACACTTTTCAAACGATGCAATGTAAGTGGCTAGCTTATATATATATATAT
ATATATATATATATATATATTTTTTTTTTTTTTTTACTTATTTTTTTCTGATATTCTTACACC
AGATATGTACGAAAATGATCTGTCTGTTGGTGTAATTAGGAATGTCCATGCAGATACAG
TTAAACAACCTGTAATTGACTGTTCTGTAAAGTTATTTTGGGCAAAGTTGCGGAGACACAT
TCCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAAATCATTTTCA
TAGTTTTCCCCACAGTGATCATTTCTGCATTTTCTGGCTTTTGTGTTTCTGGCTGAAAGTG
AATGGTGACTGTTAGGAATGTGAGGGACTAGTGACCCAGTCCTGTTTCTCTGTGTTTTAG
TTATTAAAAAGAAATTCTGTACCCAAAGTG

Gene 9. >ENST00000269601 cDNA sequence

GCGGAGTTTGCGTGTGCGGGCGGGACCGGATTTTCGTCCGTGGGCCCGGGGGCGGCGGGGG
CCGGGGAGTGAGGGGCCGGCTGAGCCACCTCGCTGGGCCCTCCCTGGCGCCCCGCCTTG
GGCGGCGGCGAGCGCGCGGGCCGCCATGTGCTACATGCTCCCGCACCTGCACAACGGCTG
GCAGGTGGACAGGCCATCCTCTCGGAGGAGGACCGCGTGGTTCGTATCCGCTTTCGGCCA
CGACTGGGATCCTACGTGCATGAAGATGGACGAGGTCTGTACAGCATCGCCGAGAAGGT
TAAAAATTTTGCAGTTATTTATCTTGTGGATATTACAGAAGTGCCTGACTTCAACAAAAT
GTATGAGTTATACGATCCATGTACTGTGATGTTTTTCTTCAAGAACAAAGCACATCATGAT
TGACTTGGGGACTGGCAACAACAAGATTAACTGGGCCATGGAGGACAAGCAGGAGAT
GGTGGACATCATCGAGACGGTGTACCGCGGGGCCCCGAAAGGCCGCGGCTGGTGGTGTG
CCCCAAGGACTACTCCACCAAGTACCGCTACTGAGGCGCCCTCAGTCTGCGCGGATAAAT
GTCGTGGAGCCCTTTTTGTATGGAAACGTTTTAAAGCTATTTAAAGCCTTTGGAAAATACA
GGAAGCTCCAGGGCTGGAGCACCTCTGAGATGGAATTGATAACATGGTCTTAACTCACCG
AAATAAACAAAGCACGTGGTGAGAGGAGCAGGCCTACTTGTTTTGTTCTCAGGAACTTAAT
GAATAGATTACTGATTTTCTAGTCAAAGTTAATTCTTACCCTTGGAGTAAAACGAAGGT
GTTTATCCTGTGAGCCTGTGCGTTTTGCATACTGGGTTGGTTTGTGTTGGGCTGCGGTGAC
AGCATATGCCGCGAGCTGGGCTTTAAACAGAGATGTGTGCTCTCACAGCTTTGCAGGCGGG
GGTCTGAGATCAGGGTGTGCGGGTGGGGGGTCACTGCTGAGGCCGTGAGGGGAATCTGC
TCAGGCCTGTCCCTGGCTTCTGGGGGCTGCTGGTGGTATTTTCAAGTTCTTGGTGTGTGG

FIGURE 1 (CONT'D)

ATACTTCGCCCCATCTCTGCCTTCACCTGTGTCTCCTCCCTGTGTGGGTGCTGGTGTCCAAA
ATTTCCCTTTTCGTAAGTACACCAGCTGTGTTGGATTGGGGCCACCCTGCTCCAGCAT
GGCCTAATCTTAACTAATTACATTTGCAAGGATCTTATGTCCACAAAAGTACAGTCTGA
GGTGCTGGGGGTTAGGACTTCAATATATAAATTTGCGGTTACACAATTCAATCCATGAC
AGAATCCAAAGGTTTACTCTGGTTATAAAAAACAGTACAATAAAATATTGTTTATAGCCTT
CCCTGTAAGG

Gene 10. >ENST00000306735 cDNA sequence

ACACGCCGCTGCCAGGCGTGAGTCTTCCTCCCGCTCTGCGCCGTCGCCCCGCCACACG
CCGCCACCCTCGCGTCAGTTGTGCTCCGCGCCTGCGCCCGTTGTCTCCCTGCTCGCTCC
GGGTCCCGGCGCGCGCCATGTGGGCTGCGGCGGGCGGGCTGTGGCGCTCCCGCGCGGGT
CTCCGGGCCCTGTTCCGTAGCCGCGATGCTGCGCTATTTCCAGGCTGCGAGCGGGGACTT
CACTGCTCTGCTGTCTCCTGCAAGAACTGGCTCAAGAAATTTGCCTCGAAAACCAAAAA
AAGGTTTGGTATGAAAGTCCTTCCTTGGGTTCTCACTCGACTTACAAACCATCCAAGTTG
GAATTCCTCATGAGGAGCACCTCAAAGAAAACAGGAAGGAAGACCATGCGCGCCTGAGG
GCCCTGAACGGCCTCCTCTATAAGGCACTGACAGACCTGCTGTGTACCCCTGAAGTGAGT
CAGGAGCTGTATGACCTTAACGTGGAGCTCTCCAAGGTTTCCCTGACTCCAGACTTCTCA
GCCTGCCGAGCGTACTGGAAGACAACGCTCTCTGCTGAGCAGAACGCACACATGGAGGCT
GTCTGCAGAGAAGTGCCGCGCACATGAGGCACCTTTTGATGTCCAGCAGACCTGAGG
AATGTGCCACCGATAGTGTGTTGTTCAAGACAAGGGAATGCAGCTCTAGCTGAGCTTGAT
CAGTTACTGGCAGTCGAGACTTTGGACCCCGGGATGAAAGAGACAACCTTTGTACAAAAT
GATTTCCAGGACCTGATGCCCCACAACCTGCGGCACCACAGAGCCGACCACAAGCTCC
AGTCTGTGTGGGATCGATCATGAGGCGCTCAACAAGCAGATTATGGAGTACAAAAGGAGG
AAAGATAAAGGGCTCGGGGGCCTGGTGTGGCAGGGGCGAGTGGCTGAGCTGACAACGCAG
ATGAAAAAGGGAAGGAAGAGGGCCAAGCCCCGCTGGAGCAGGACAGCTCCCTCAAGAGT
TACCTGTGAGGCGAGGAGTTGAAGATGACCTGGACCTGGTTGGTGCCCGGAGTACGAA
TGCTATGCCCCGGACACAGAGGAGTTGGAGGCAGAGAGAGGAGGTGGCAGAACAGAGGAT
GGCCACAGCTGCGGAGCAAGCAGGGAGTAGATGGAGAGGCTCTGCCCATCCACATTTGC
AGGGAAAAGCATTGGCACGCAACGCAGCATGTGGCTTCATTGAGGCAGTTGATGGAGTTA
AACCATCTGCTCTTCTGCTACTTCAACATTTTCTAGCTTTTCCGTGTATCTAAACACAAT
TTGCTACACAAGTCACTGTTTTTTTTTCCATGCACTGTGTGTAATTTAAAAATTAAATGG
CCATCTTATCACAGATTCTCAC

Gene 11. >ENST00000262197 cDNA sequence

CCTGCTCGCTCCGGGTCCCGGCGCCGCGCCATGTGGGCTGCGGCGGGCGGGCTGTGGCGC
TCCCGCGCGGGTCTCCGGGCCCTGTTCCGTAGCCGCGATGCTGCGCTATTTCCAGGCTGC
GAGCGGGGACTTCACTGCTCTGCTGTCTCCTGCAAGAACTGGCTCAAGAAATTTGCCTCG
AAAACCAAAAAAAGGTTTGGTATGAAAGTCCTTCCTTGGGTTCTCACTCGACTTACAAA
CCATCCAAGTTGGAATTCCTCATGAGGAGCACCTCAAAGAAAACAGGAAGGAAGACCAT
GCGCGCCTGAGGGCCCTGAACGGCCTCCTCTATAAGGCACTGACAGACCTGCTGTGTACC
CCTGAAGTGAGTCAGGAGCTGTATGACCTTAACGTGGAGCTCTCCAAGGTTTCCCTGACT
CCAGACTTCTCAGCCTGCCGAGCGTACTGGAAGACAACGCTCTCTGCTGAGCAGAACGCA
CACATGGAGGCTGTCTGTCAGAGAAGTGCCGCGCACATGAGCTTGATCAGTTACTGGCAG
TCGCAGACTTTGGACCCCGGGATGAAAGAGACAACCTTTGTACAAAATGATTTCCAGGGACC
CTGATGCCCCACAACCTGCGGCACCACAGAGCCGACCACAAGCTCCAGTCTGTGTGGGA
TCGATCATGAGGCGCTCAACAAGCAGATTATGGAGTACAAAAGGAGGAAAGATAAAGGGC
TCGGGGGCTGGTGTGGCAGGGGCGAGTGGCTGAGCTGACAACGCAGATGAAAAAGGGAA
GGAAGAGGGCCAAGCCCCGCTGGAGCAGGACAGCTCCCTCAAGAGTTACCTGTGAGGCG
AGGAGGTTGAAGATGACCTGGACCTGGTTGGTGCCCCGGAGTACGAATGCTATGCCCCGG
ACACAGAGGAGTTGGAGGCAGAGAGAGGAGGTGGCAGAACAGAGGATGGCCACAGCTGCG
GAGCAAGCAGGGAGTAGATGGAGAGGCTCTGCCCATCCACATTTGCAGGGAAAAGCATT
GGCACGCAACGCAGCATGTGGCTTCATTGAGGCAGTTGATGGAGTTAAACCATCTGCTCT
TCTGCTACTTCAACATTTTCTAGCTTTTCCGTGTATCTAAACACAATTTGCTACACAAGT
CACTGTTTTTTTTTCCATGCACTGTGTGTAATTTAAAAATTAAATGGCCATCTTATCACA
GATTCTC

Gene 12. >ENST00000262198 cDNA sequence

FIGURE 1 (CONT'D)

GGGGACCAAGTCGCGCTGGGGGTGGGCGCGCGCTGAGGCGGGGGTCCCGCCGCGCGGGGCG
GAGGCGGGGCGGGCGCAGGCGGCCCCACGGGACGCGGCTGCGCTCGGCGGAAGACGCGG
CAGCCCTGCGAGAGGCAGCAGCGGAGACGCGGTGCTCCTCGGGCGCCAAGCGGAAAATTT
CAAAAATGTTTCAAATTCCTGTGGAAAATCTTGACAACATCAGAAAGGTGCGAAAAAAGG
TGAAAGGTATTCTTGTGGATATTGGGCTTGACAGCTGCAAGGAGTTACTGAAGGACCTTA
AAGGCTTTGATCCAGGAGAGAAATACTTTTATAACACATCATGGGGTGATGTTTCTCTCT
GGGAACCTTCTGGAAAGAAAGTGAGATATCGAACAAGCCATACTGTTGTGGCCTCTGTA
AATACTCTACAAAGGTGCTTACTTCAATCAAGAATCATTTACATCGTTACCATGAAGATG
AAATTGACCAAGAGCTGGTGATCCCTTGCCCAAACCTGTGTATTTGCATCTCAGCCCAAAG
TTGTGGGAAGGCACTTCAGAATGTTCCATGCACCTGTCCGAAAGTCCAGAACTACACAG
TGAATATTTTAGGTGAAACTAAATCATCTAGGAGCGATGTGATAAGTTTACATGTCTAA
AATGTAACTTTTCAAACACTTTGTACTACAGCATGAAGAAGCATGTGCTGGTAGCCATT
TTCATACTTAATTAACCTCTACTTTGGCCTAAGAACTGAGGAAATGGGTGAGCAACCGA
AAACTAACGATACTGTTTCTATAGAGAAGATCCCACCACCTGACAAATATTACTGTAAAA
AGTGCAACGCCAATGCCAGCAGCCAGGATGCGTTAATGTATCACATTTTGACATCAGACA
TACACAGAGATTTGGAGAATAAGCTTAGATCTGTGATTTTCAAGACATATTAAGAGGACTG
GACTCTTGAAGCAAACGCACATTGCTCCAAAACAGCAGCACATTTGGCTGCACCAGCAA
ATGGCAGTGCTCCAAGCGCTCCAGCGCAGCCTCCTTGCTTCCATCTTGCTTTGCCACAGA
ACAGTCCAAGCCAGCCGAGGACAGCCAGTGACTGTGGCCAGGGTGCCCTGGAAGCC
TCACTCATTCCCCCCTGCTGCTGGCCAATCCACATGACTCTGGTCTCCAGCCCTCTGC
CTGTGGGCCAGAACAGCCTCACCTGCAGCCCCCAGCACCTCAGCCCGTCTTTCTTTCTC
ACGGGGTTCCACTTCATCAGTCTGTGAATCCTCCTGTGTTGCCCTTGAGTCAGCCAGTCG
GACCTGTCAATAAGTCTGTTGGAAGTGTGTCCTCCCATAAATCAGACTGTTTCGCCCTG
GGGTTTTACCCCTCACCCAGCCTGTGGGACCCATAAACAGACCTGTTGGGCCTGGTGTTT
TTCCTGTGAGCCCTCTGTCAACCCCTGGGGTCTGCGAGGCTGTCTCGCCAGGGGTGCTTT
CTGTGAGTCGGGCGGTCCCGTCTGGAGTCCTTCCTGCAGGCCAGATGACTCCTGCAGGCC
AGATGACTCCTGCAGGGGTTATCCCTGGGCAAACAGCAACTTCTGGGGTTCTTCCTACTG
GCCAGATGGTCCAGTCAGGAGTTCTCCCTGTGGGCCAGACAGCTCCGTACGGGGTTCTTC
CCCCAGGCCAGACAGCCCCATTGAGGGTTATCTCTGCAGGCCAGGTGGTCCCGTCTGGGC
TTCTTTCTCCCAACCAGACAGTCTCCTCCTCAGCTGTTGTGCCTGTAAACCAGGGTGTGA
ATTCTGGTGTTCTGCAGCTTAGTCAGCCTGTTGTGTGCGGGAGTTCTTCCTGTGGGCCAGC
CAGTGAGGCCTGGGGTCTTGCAACTCAACCAGACTGTGGGCACCAACATTCTGCCTGTGA
ATCAGCCAGTGAGACCTGGTGCTTCGCAGAACACCACCTTCCTGACATCAGGCTCTATTTC
TCAGACAGCTCATCCCTACAGGGAAACAAGTGAATGGGATTCCAACCTACACGCTGGCCC
CCGTGTCTGTCACTCTGCCGGTTCCCCCTGGAGGCCTTGCGACTGTGCTCCGCCCCAGA
TGCCCATCCAGCTCCTGCCGTGAGGTGCAGCTGCACCAATGGCCGGTTCCATGCCCGGCA
TGCCCTCTCCTCCAGTGCTGGTGAATGCTGCTCAGAGCGTGTTTGTTCAGGCCTCCTCCT
CTGCAGCAGACACAAACCAGGTGCTCAAACAGGCCAAGCAGTGGAAGACCTGCCCTGTCT
GCAACGAGCTCTTTCCGTCCAACGTCTACCAGGTCCACATGGAGGTAGCGCATAAGCACA
GCGAGTCCAAGTCTGGTGAGAACTTGAGCCTGAAAAACTGGCAGCGTGTGCACCATTTTC
TAAAGTGGATGAGAGAGAAAAACGGTGCGATGTCTGTCTTGTAAGTGCTTGGTCTCTGAGG
AAGAGCTTATACACCACTTGCTGATGCATGGCTTGGGGTGCTTGTCTGTCCATGCACCT
TCCATGATATCAAAGGTCTTTTCAAGACACAGCAGGAATAGGCACCTGGGGAAGAAGAAGT
TGCCTATGGATTATAGCAACAGAGGTTTTCAATTAGATGTGATGCCAATGGCAACCTGC
TCTTTCCCCACCTTGATTTTCACTACCATATTGCCAAAGGAGAAGCTTGGGGAGCGGGAAG
TCTACTTGGCAATCCTGGCTGGGATACACTCCAAGTCACTGGTGCCTGTGTATGTGAAGG
TGAGGCCTCAGGCTGAGGGCACCCCGGGAGCACCGGCAAGCGAGTGTCCACCTGCCCTT
TTTGCTTTGGCCCTTTGTGACAACTGAGGCCTATGAGCTGCATTTGAAGGAGAGGCACC
ACATCATGCCACAGTCCACACGGTCTGAAAGTCTCCCGCCTTCAAGTGCATCCACTGCT
GTGGGGTCTACACGGGAAATATGACCCTGGCTGCCATCGCCGTCCATTTGGTGCGCTGCA
GAAGTGCTCCCAAGGACAGCAGCTCAGACCTGCAGGCCAGCCGGGTTTTATTCAACA
GTGAACTGCTTTTAGTCAGTGGTGAAGTGATGCATGATTCCAGTTTTTCTGTTAAGAGAA
AGCTGCCTGACGGCCACTTAGGGGCCGAAGACCAGCGGCATGGGGAGGAGCAGCCTCCCA
TCCTAAATGCCGATGCAGCCCCGGGTCCAGAAAAGGTGACGAGTGTTGTGCCTTTTAAAA

FIGURE 1 (CONT'D)

GACAAAGGAATGAAAGCAGAACAGAGGGACCTATTGTCAAGGACGAGGCTCTTCAGATTT
TAGCATTAGATCCTAAAAAATATGAAGGCCGTTCTTATGAAGAAAAGAAGCAATTTCTTA
AAGATTATTTCCATAAGAAACCATATCCTAGTAAAAAGGAAATAGAAGTGTTCCTCAC
TCTTTTGGGTGTGGAAAATTGATGTGGCTTCATTTTTTGGAAAAAGAAGGTATATTTGCA
TGAAAGCAATAAAAAATCACAAGCCTTCTGTACTTTTAGGCTTTGATATGTCTGAACTTA
AAAATGTGAAACATAGATTGAACTTTGAATATGAACCATAAACTTGCAAAAAAAAAAAAA
AAGTAACTCTAAAGTAGTAGGTAGATTTTTTTTTCAGTTGAAATTTACAGTGTTCCTCA
CTGTGTTGGTGAATCAACCTCAGTGGTCACTGTGCTGCTCTGCAGAGTTACTTCAGGTGC
TGGAGAGACCCCTGTTACCAGGAAGCCAGTAGTTATTTACATCTATTGTTTCCTGCAGT
TTGATTTGTAAACAGAACAGTTGTTTTTCAGGTTTTTTTCTCTGTATGTAAATGAAATCTT
TTGATATTTTCATGCACGCCTTGTTTTCCCACTAGTGTCACTATCGTATGATAAGAACTG
AAATCTATAAATAATTTGCTTTTTTCATTAAGGACATTTCAGCCTTTTTTCAGAATACTTGA
TTTAAGTGCAGTGAAGCATCGATCTCCTTCAGCTTTCCCTGTAGCAGCAGATGGTACA
GTGAGTGTTCAGAGACGTGGGTACAAACCTGTGATGTATGTATAAGGCTCCCTGAGGAT
GCACTGCATTAACTTACGCTGACTTCTTTGTAAGATCTTTGCTTATAGATTATAATTTAG
ATCTGTATTTTTTTTAGGTTTATCCTAATAGCTGTTTTTTTTTTTAAACCATAACTCATAGA
AAATCAAATGTTTTTATTTGTTAAAGTAGACTGAATTTGACATCTGGTATGCTGGTATG
TAGCTCATACATCAAGAGTTATTTTACAAATAAATTTATTCTGTAGATGC

Gene 13. >ENST00000316249 cDNA sequence

ATGGAGCCATGGCCCTGCTCCCCGGGCGGCGGCGGGACCCGCGCCCGGCACGTCAATC
ATCAACGTGGGCGGCTGCCGCGTGCCTGGCATGGGCGCGCTGGCGCGATGCCCCCTC
GCGCGCCTGGAGCGCCTGCGCGCCTGCCGCGGCCACGACGACCTGCTGCGCGTGTGTGAC
GACTACGACGTGAGCCGCGACGAGTTCTTCTTCGACCGCAGCCCGTGCGCCTTCCGCGCC
ATCGTGGCGCTTTTTCGCGCAGGGAAGCTGCGACTGCTGCGGGGCCCCGTGCGCGCTGGCC
TTCCGCGACGAGCTGGCCTACTGGGGCATCGACGAGGCGCGCCTGGAGCGCTGCTGCCTG
CGCCGCTGCGCGCCCGCGAGGAGGAGGCGGCCGAGGCCCGCGCGGGGCGGACGGAGCGC
GGGGCGCAGGGGAGCCCGGCGCGCGCCCTGGGACCTCGGGGGCGGCTGCAGCGCGGCCGG
CGGCGCCTGCGCGACGTGGTGGACAACCCGCACTCGGGGCTGGCGGGCAAGCTCTTCGCC
TGCGTGTCCGTGTCCTTCGTGGCCGTACGGCCGTGGGCTCTGCCTGAGCACCATGCCG
GACATCCGCGCCGAGGAGGAGCGGGGCGAGTGCTCCCCAAGTGCCGAGCCTGTTCTGTG
CTGGAGACCGTGTGCGTGGCCTGGTTCTCCTTCGAGTTCTGTGCTGCGCTCCCTGCAGGCC
GAGAGCAAGTGCGCCTTCTGCGCGCGCCACTCAACATCATTGACATCCTGGCGCTCCTG
CCGTTCTACGTGTGCTGCTGCTGGGGCTGGCGGCGAGGCCCGGGCGGGACCAAGCTCCTG
GAGCGCGCGGGGCTGGTGTGCTGCGGCTGCTGCGTGCCTGCGCGTGTCTACGTGATGCGC
CTGGCGCGCCACTCGCTGGGGCTGCGTTCTGCTGGGCTGACCATGCGCCGCTGCGCGCGC
GAGTTCCGGGCTGCTGCTGCTGTTCTCTGCGTGGCCATGGCGCTCTTCGCGCCACTGGTG
CACCTGGCCGAGCGCGAGCTGGGCGCGCGCCGCGACTTCTCCAGCGTGCCCGCCAGCTAT
TGGTGGGCGGTCACTCTCCATGACCAACCGTGGGCTACGGCGACATGGTCCCGCGCAGCCTG
CCCGGGCAGGTGGTGGCGCTCAGCAGCATCCTCAGCGGCATCCTGCTCATGGCCTTCCCG
GTCACCTCCATCTTCCACACCTTTTCGCGCTCCTACTCCGAGCTCAAGGAGCAGCAGCAG
CGCGCGGCCAGCCCCGAGCCGGCCCTGCAGGAGGACAGCAGCACTCGGCCACAGCCACC
GAGGACAGCTCGCAGGGCCCCGACAGCGCGGGCCTGGCCGACGACTCCGCGGATGCGCTG
TGGGTGCGGGCAGGGCGCTGA

Gene 14. >ENST00000316111 cDNA sequence

CAGGTTTGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGAC
CATGCTGCTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAG
GCGCCGCTCCTTTACAGACTTCGACCCCCACCACTTCTGGCAGTGGAGCAGCTTCTCGGA
CTACGTGCAGTGCCTTGGCCTTTCAGGGCGTGGCGGGCTACATCACCTACCTGTCCAT
TGACTCCGCCCTGTTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCT
GGGTGTGCCCCAGCTTTACCGCAACCACCGCCACCAGTCCACGGAGGGCATGAGCATCAA
GATGGTGTCTCATGTGGACCAGTGGTGACGCCTTCAAGACGGCCTACTTCTGCTGAAGGG
TGCCCCCTGTCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTGGTGGACCTGGCCATCCT
GGGGCAGGCCTACGCCTTCGCCCCGACCCCCAGAAGCCGGCGCCCCACGCCGTGCACCC
CACTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGG

FIGURE 1 (CONT'D)

GCACTGGTGGGCCCTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCCTGCAGGTGTG
GCAGAGATGGGGCATGGGCATTGGGGTCTCCATCAGCCTCTGTGGGGTGTCTCAGGGTGG
GCAGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGACAGCCAGGGTTGATCTG
GCCCCGAGGGTTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTTTCCCATTTC
TCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCCTGCAGGAACCTGCTCC
AGGTGGACACACGGGCCAGCAGCCGCGAACCTTGAAGCTGGGGTGACCGCAGGAGACCCT
GTAAGGCCTGTGAGCGGAGCCCTCGACCCCGTGACACCCTGGCCAGACACCCTGCTTGGA
CTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGGCTGGGGCTTTCTCTGCC
TGGTACACACGGAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTGAC
AGTCCGTGTTTTCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCT
GTGTCCAGCCCGCTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGAGCCTCTGGT
TCTCCTCGAGTCTTGGGGACGTGGCAGATGCCAGCGACCATCAGACAACGTGGAGGCCC
TCATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACATGAGTCTGCACGCCACT
CTTGGGCTCTGCTGGCGGAGATCCCCCTTCCTTCTGGGTGCAGACTGCACCTCCGGATGCA
GTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCC
CCTGCCGTGCAGGTCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGA
AGCAAATTCTGAGTGGGGGGTACTGGGGCCTGCCGCATCCTGTCTGTCCACTGCCAC
CCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCGCCAGTCTGACCCTTGTC
ACCGCACGCTCTGCCCCACCCCGTTGCAAGAGGTCAACCATGTGAGCAGCCTTGCACT
GACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCA
TCGTCTTCCCTTCCGCAGGTGGAGGGGCCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGG
GGCCGTGGCCATGGGAAGATGTTCCACGCTGCCTCCTCCTCGAGTTTTCTCGGAAACAC
TCTTGAATGTCTGAGTGAAGGTCTGCTTAGCTCTTTGGCCTGTGAGATGCTTTGAAAAT
TTTTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAAACTGT
CGCCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGGAATCAATAA
ACCATTTGTGGATCCTG

Gene 15. >ENST00000262199 cDNA sequence

CGCAGGCCCCGAGGCCGAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCCG
CGGGGCGCGGAGCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCC
TGGACTGGCTCCTGGTGCCACTGCACCAAGCTGGTGTCTGGGGCGCGGCCCGGCCATGG
TCTTCGGAGGGGTGGTGCCCTACGTCCCGCAGTATCGGGACATTTCGAGGACGCAGAACG
CCGACGGCTTCTCCACCTACGTGTGCCTGGTGTCTGCTGGTGGCCAACATTTTGGCGATAC
TCTTCTGGTTTTGGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCC
TGACCATGCTGCTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACG
CCAGGCGCCGCTCCTTTACAGCTGCAGATAGCAAGGATGAAGAAGTCAAGGTTGCCCCCA
GGCGGTCTTCTGGACTTTCGACCCCCACCACTTCTGGCAGTGGAGCAGCTTCTCGGACT
ACGTGCAGTGCCTCCTGGCCTTACGGGCGTGGCGGGCTACATCACCTACCTGTCCATTG
ACTCCGCCCTGTTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCTGG
GTGTGCCCCAGCTTTACCGCAACCAACCGCCACCAAGTCCACGGAGGGCATGAGCATCAAGA
TGGTGTCTCATGTGGACCAAGTGGTGACGCCTTCAAGACGGCCTACTTCTGTGTAAGGGTG
CCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTGGTGGACCTGGCCATCCTGG
GGCAGGCCTACGCCTTCGCCCCGCCACCCCCAGAAGCCGGCGCCCCACGCCGTGCACCCCA
CTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGC
ACTGGTGGGCCCTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCCCTGCAGGTGTGGC
AGAGATGGGGCATGGGCATTGGGGTCTCCATCAGCCTCTGTGGGGTGTCTCAGGGTGGGC
AGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGACAGCCAGGGTTGATCTGGC
CCCGAGGGTTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTTTCCCATTTCCTC
TTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCCTGCAGGAACCTGCTCCAG
GTGGACACACGGGCCAGCAGCCGCGAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGT
AAGGCCTGTGAGCGGAGCCCTCGACCCCGTGACACCCTGGCCAGACACCCTGCTTGGA
GGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGGCTGGGGCTTTCTCTGCCTG
GTACACACGGAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTGACAG
TCGGTGTCTTCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGT
GTCCAGCCCGGCTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGAGCCTCTGGTTC

FIGURE 1 (CONT'D)

TCCTCGAGTCCTTGGGGACGTGGCAGATGCCAGCGACCATCAGACAACGTGGAGGCCCTC
ATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACATGCAGTCTGCACGCCACTCT
TGGGCTCTGCTGGCGGAGATCCCCCTTCTTCTGGGTGCAGACTGCACCTCCGGATGCAGT
TTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCC
TGCCGTGCAGGTCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGAAG
CAAATTCCTGAGTGGGGGGTACTGGGGCCTGCCGCATCCTGTCTGTCCACTGCCACCC
CCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCGCCAGTCTGACCCTTGTAC
CGCACGCTCTGCCCCACCCCGTTGCAAGAGGTCAACCATGTGAGCAGCCTTGCACTGA
CCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATC
GTCTTCCCTTCCGCAGGTGGAGGGGCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGG
CCGTGGCCATGGGAAGATGTTCCACGCTGCCTCCTCCTCGAGTTTTCTCGGAAACACTC
TTGAATGTCTGAGTGAAGGTCTGTCTTAGCTCTTTGGCCTGTGAGATGCTTTGAAAATTT
TTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAAACTGTGC
CCGACTGC

Gene 16. >ENST00000299466 cDNA sequence

ATGTCTCGGCGCAAGCAGGCCAAGCCCCAGCACCTCAAGTCGGACGAGGAGCTGCTGCCG
CCTGACGGGGCTCCCGAGCACGCCGCCCGGGGGAAGGTGCGGAGGACGCAGACAGCGGG
CCCGAGAGCCGCAGCGGGGGCGAGGAGACCAGCGTGTGCGAGAAATGCTGCGCCGAGTTC
TTCAAGTGGGCGGACTTCTGGAGCACAGCGGAGCTGCACCAAGCTCCCGCCCGTGCTG
ATCGTGACAGGAGCGCGCCCGCGCCCGCCCCCGAGGACTTCCCGAGCCTTCGCCCCGCC
AGCTCCCCCAGCGAGCGCGCCGAAAGCGAGGCGGCCGAGGAGGCGGGTGCGGAGGGCGCG
GAGGGCGAGGCCAGGCCGGTGGAGAAGGAGGCCGAGCCCATGGACGCGGAACCCGCGGGG
GACACGCGCGCGCCCCGCGCCCCCGCTGCGGCCCTGCACCCCCAACGCCCGCTACGGC
GCGCCCAGCACCAACGTGACCCTGGAGGCGCTGCTGAGCACCAAGGTGGCGGTGGCGCAG
TTCTCGAGGGCGCGCGCGCGGCGAGGCGGCTCGGGAGCAGGTGGAGGCGTGGCAGCTGCA
GCCGTGCCCCCTGATCCTGGAACAGCTCATGGCCCTGCAGCAGCAGCAGATCCACCAGCTG
CAGCTCATCGAGCAGATCCGCAGCCAGGTGGCCCTCATGCAGCGCCCGCCCGCGCGCCC
TCACTCAGCCCCCGCGGCCCGCCCCGAGCGCACCGGGCCCCGGCCCCCAGCCAGCTGCCCGGG
CTGGCCGCGCTCCCGCTGTGCGCCGGGGCCCCCTGCCGCCGCATCGCGGGCTCGGGCCCC
GCCGCCCGGGCCGCCTTCGAGGGCGCGCAGCCGCTGTCCCGGCCCGAGTCTGGCGCCAGC
ACCCCCGGCGGCCCTGCGGAGCCAGCGCGCCCGCCCGCCCCCAGCGCCGCCCTGCCCCC
GCTGCCCCCGCCCCGGCGCCAGCGCCGAGAGCGCAGCCTCGTTCGAGCCGCGAGAGCGCA
TCCACGCCGCCTGCCCTGGCCCCGGGGTCCCTGCTGGGTGCGGCGCCCGGCCTGCCAAGT
CCGCTTCTACCTCAGACTTCCGCCAGCGGCGTCATCTTCCCAACCCGCTGGTCAGCATC
GCGGCCACGGCCAACGCTCTGGACCCGCTGTCCGCGCTCATGAAGCACCGCAAGGGCAAG
CCGCCCAATGTGTGGTGTTCGAGCCCAAAGCCAGCGCCGAGGACCCGTTCTTCAAGCAC
AAATGCCGCTTCTGCGCCAAGGTCTTCGGCAGCGACAGCGCGCTCCAGATCCACCTGCGC
TCGCACACAGGCGAGCGGCCCTTCAAGTGCAACATCTGCGGGAACCGCTTCTCCACCAA
GGCAACCTGAAGGTGCACTTCCAGAGGCACAAGGAGAAGTACCCCAACATCCAGATGAAC
CCTTACCCGGTCCCCGAGTACCTGGACAACGTGCCACCTGCTCGGGCATCCCCCTACGGC
ATGTGCTGCCCCCGAGAAGCCCGTGACCACCTGGCTGGACAGCAAGCCCGTGCTGCCC
ACCGTGCCACGTCCGTGGGGCTGCAACTGCCGCCCACTGTCCCTGGCGCGCACGGCTAC
GCCGACTCTCCAGCGCCACCCAGCCAGCCGCTCCCCCGAGAGGCCCTCGCCCCGCTCC
AGCGAGTGCGCCTCCTTGTCCCCAGGCCTCAACCACGTGGAGTCCGGCGTGTGCGCCACC
GCCGAGTCCCCACAGTCGCTCCTCGGCGGGCGCCCCCTCACTAAAGCCGAGCCCGTCAGC
CTGCCCTGCACCAACGCCAGGGCCGGGGACGCTCCCGTGGGCGCGCAGGCTAGCGCTGCA
CCCACATCGGTGGACGGCGCACCCACGAGCCTCGGCAGCCCCGGGCTGCCCGCCGTCTCC
GAGCAGTTCAAGGCCAGTTTCCGTTTCGGGGGGCTGCTAGACTCGATGCAAACGTGCGAA
ACCTCGAAGCTGCAGCAGCTGGTGGAGAACATCGACAAGAAGATGACGGACCCGAACAG
TGCGTCATCTGCCACCGGGTGTGAGCTGCCAGAGCGCGCTGAAGATGCACTACCGGACG
CACACGGGGGAGCGGCCGTTCAAGTGCAAGATCTGCGGCCGCGCCTTCAACCACCAAGGGC
AACCTCAAGACGCACTTCCGCGTGCAACGTGCAAAGCCGCCCTGCGCGTGCAGCACTCC
TGCCCCATCTGCCAGAAGAAGTTCACCAACGCCGTGGTCTGTCAGCAGCACATCCGCATG
CACATGGGCGGCCAGATCCCCAACACGCCGCTGCCGGAGGGCTTCCAGGATGCCATGGAC

FIGURE 1 (CONT'D)

TCCGAGCTGGCCTACGACGACAAGAACGCGGAGACCCTGAGCAGCTACGATGACGACATG
GACGAGAACTCCATGGAGGACGACGCTGAGCTGAAGGACGCGCCACCGACCCGGCCAAG
CCACTCCTGTCTACGCGGGGTCTGCCCCGCCCTCCCCGCCCTCGGTATCTCCAGCATT
GCCGCCCTGGAGAACCAGATGAAGATGATCGACTCGGTATGAGCTGCCAGCAGCTGACC
GGCCTCAAGTCCGTGGAGAACGGGTCCGGGGAGAGTGACCGCCTGAGCAACGACTCCTCG
TCGGCCGTGGGCGACCTGGAGAGCCGAGCGCGGGCAGCCCCGCCCTGTCCGAGTCCTCG
TCCTCGCAGGCCCTGTGCGCGGCCCCCAGCAATGGTGAGAGCTTCCGCTCCAAGTCCCCG
GGCCTGGGCGCCCCGGAGGAGCCCCAGGAAATCCCGCTCAAGACCGAGAGGCCGGACAGC
CCAGCCGCCGCCCGGGCAGCGGAGGCGCCCCCTGGCCGCGCGGGCATCAAGGAGGAGGCG
CCCTTCAGCCTGCTGTTCTGAGCAGGGAGCGGGTAAGTGTCCAGCACTGTGTGTGGT
GTCTGTGGCAAGCCTTTTGTCTGCAAGAGCGCGTTGGAAATCCACTACCGCAGCCATACT
AAGGAGCGGCCATTTCGTCTGCGCGCTCTGCAGGCGAGGGTGCTCCACTATGGGTAATTTA
AAACAGCACTTACTGACACACAGATTGAAAGAGCTGCCTTCTCAGTTATTTGACCCCAAC
TTTGCTCTAGGTCCAGCCAAAGCACTCCTAGCCTGATCTCCAGCGCCGACCCACCATG
ATCAAAATGGAAGTGAACGGTCAAGGCAAGGCCATGGCGCTGGGCGAGGGTCCCCCGCTG
CCCGCGGGCGTCCAGGTCCCCGCGGGCCTCAGACAGTGATGGGCCCCGGGCTGGCGCCC
ATGCTGGCCCCCCCCACCGCGCCGGACGCCCAAGCAGCACAACCTGCCAGTCGTGCGGGAAG
ACCTTCTCCTCGGCCAGCGCCCTGCAGATCCATGAGCGCACGCACACCGGCGAGAAGCCG
TTCGGCTGCACCATCTGCGGCGGGCCTTCACTAAGGGCAACCTCAAGGTGCACATG
GGGACACACATGTGGAATAACGCCCCCGGAGACGCGGCCGCCGCTGTCTGTGGAGAAC
CCCATGGCTCTCCTAGGGGGTGATGCCCTGAAGTTCTCTGAAATGTTCCAGAAGGACCTG
GCAGCTCGGGCAATGAACGTGACCCCAAGTTTTTGAACCAAGTATGCTGCAGCCATCACT
AACGGGCTCGCCATGAAGAACAACGAGATCTCCGTATCCAGAACGGCGGCATCCCCCAG
CTCCCCGTGAGTCTTGGGGGCGCGCCCTCCCCCTCTGGGCAGCATGGCCAGTGGGATG
GACAAAGCACGCACTGGCAGTAGCCCAACCCATCGTCAGCTTGACAAAGCGAGCTCAGAA
ACAGCAGCCAGCCGCCATTACGCGGTTTATCGAGGATAACAAGGAGATTGGTATCAAC
TAGCCAGTGACTCGCTCATCTGCCCTGCCAGGCCACGTTTTGAAGTTGGAGCATCAGG
CCTCCGACCTTTCTTGCTCGGTTCTCATTACATTTTACCCATAGCAGAAAACACTTTG
TGCGGCTGCCGAGAGGTGGTCTTGTAAGCGCTGCATGGCGCTCCCTTCAACAGCAAGCCT
GACTGTTCTCGAGAACTCTGCAATCTTTTAAATAAGCTTCCTTCAAAAAAAAAAGTGCTT
GGAAAACCGCCTTAGGAACAGAAAGAGCTCAGACCATGTCCACTTCCTTTCTCCTGAAAC
CTAATAATCTCTCCGAGGGAGAAAGGGGTTCTCTGCGGTATTCCAGTGAAACTCATTGTA
TGGTTTTCTTTTGAATTAGTTAGACACTTGAACGGTGTTTTTTGAAGTCTTTCATGTTAAA
GACGTGGTTTTAGTACTCCCAATGCTGTGTATCATGACACTATCTTCGTCTGTAGTATTTA
TGATGTTAAGATAATGCGGGTAACAGACAATATAATAGCCCCGACCTTAAACGAAGCTTT
TGTAAGTGCAGAAATACATCTGGCTGTGTGATTTTTTTTTTTTAAAGCAAGATTTGTTTTACTA
TAAATAAGTGGATTATTTCAATGCAGGCAAAATTGTGAAGTTCTGTTGGGAAAGATAGCA
TGCTTTTTCGTGTGCAAGTACCTGTGAGTAATAAGCCTTTTTTTTTTTTTTTTAAATTTA
AATGTTTGTAGCTGCTATGTGGACAGTTGTTTTCTAGTGTGGTCTGTAGCCCAATAACTG
GGGAACGAGTTACAGACAAACATCACCGTAAATGACTCACAACATTATAAACAGTTGTGA
GAAAATATTTACATTATCAAAGCTGTAC

Gene 17. >ENST00000334423 cDNA sequence

GGGCCTGGACGGCCGGCGTCTCCTTCTCCAGGTAATCAGGGCCCCCTCTACGTGGCCTCCC
GGGGCCCCCTCTGGGGAGGCAGCCTGGCATCTCACAGGCGGCCGGGGCTCCCGGAAGCAG
AGACGGGCTGTGCCAGGGCTCCTAGGCCAGGCCTGGACCCAGTGCCGTGCCAGCCACCA
CCCCAGGGGCCCTGCCCTGGTTTCGAGGGAGACACACAGAAATGTGGGAGGCCGGGTGGC
CTGCACGAGCCCCCTCCCGAGGCCCCCAGCCCAGCACATCCAGAGCCCTCCCCTGAGAAA
CCCCAGACAGCCAGGTTTCGCCCCAAACCCAAACATGGTGGGACCCAGCTCGCCCCCATC
TCACGGCCGCCCATCCCACGGCCGCCCATCCCACGGCCGCCCATCCCACGGCCGCC
CATCCTCTGGCCCTGGATGTTACCAC

Gene 18. >ENST00000320610 cDNA sequence

GCCTGGAAACTACAAAGGATTGTGTTAATTTTGTGTTTAGGAAGAAAGAGGTAATGGGTA
GGAATCAATGTAACTTATTCATAGGCCACACCAACCAGGAATTCTTGTCTGTGATTGCA
CTTGGTAGAGTTAACACACGTGCACATTACGGAACGTTGGTGACCAACAGGCGTTTCAG

FIGURE 1 (CONT'D)

CGAGCTTTTCGCACACCTCATGGGCCTTTGTGGGCTGCTGGAGAGATGTTGGCTGCACCAT
 GACCCAGATGGAGTTTTTAACATTGAATGCGGAGAACTAATTATGCCTATCAAGTTCCA
 AACTTCCATAAATGTGAAATCTGTCTACTATCTTTTCCAAAAGAATCCAGTTTCAACGC
 CACATGAGGGATCACGAGCGAAATGACAAGCCACATCGATGTGACCAGTGGCCCCAAACA
 TTTAATGTTGAATTCAACCTGACACTTCATAAATGCACCCACAGCGGGGAAGATCCTACC
 TGCCCTGTGTGTAACAAGAAATTCTCCAGAGTGGCTAGTCTCAAAGCGCATATTATGCTA
 CATGAAAAGGAAGAGAATCTCATCTGTTCTGAGTGTGGGGATGAGTTTACTCTGCAGAGT
 CAGCTGGCCGTGCACATGGAGGAGCACCGCCAGGAGCTGGCTGGAACCCGGCAGCATGCC
 TGCAAGGCCTGCAAGAAAGAGTTTCGAGACCTCCTCGGAGCTGAAGGAACACATGAAGACT
 CATTACAAAATTAGGGTATCAAGTACAAGGTCTTATAACCGGAATATCGACAGAAGTGGA
 TTCACGTATTTCGTGTCCGCACTGTGGAAAGACGTTTCAAAGCCAAGCCAGTTAACGCGA
 CACATTAGGATACACACAGGTGAAAGGCCGTTCAAATGTAGTGAATGTGGAAAGGCTTTT
 AACCAGAAGGGGGCACTGCAGACCCACATGATCAAGCACACAGGTGAAAAACCCATGCC
 TGTGCCTTCTGTCTGCCGCTTCTCTCAGAAAGGAATCTTCAGTCGCACGTGCAGCGA
 GTCCACTCAGAGGTCAAGAATGGTCTACCTATAACTGTACAGAATGTAGTTGTGTATTT
 AAAAGTTTAGGCAGCTTAAACACGCATATCAGCAAGATGCATATGGGTGGGCCACAGAAT
 TCAACAAGTTCTACAGAGACTGCTCATGTTTAAACGGCCACACTTTTTTCAGACGTTACCT
 CTTCAACAGACGGAAGCCCAAGCCACGTCCGCCCTCAAGCCAGCCGAGCTCCAGGCGGTG
 AGCGACGTATCCAGCAGCTCCTGGAGCTCTCAGAGCCGGCGCCGGTGGAGTCGGGGCAG
 TCCCCGAGCCTGGGCAGCAGCTGAGCATCACAGTGGGCATCAACCAGGACATTTTACAG
 CAAGCCTTAGAAAACAGTGGGCTGTCTTCAATTCCAGCTGCAGCACATCCTAATGACTCC
 TGCCATGCCAAGACCTCTGCACCACACGCTCAAAACCCAGATGTTTCCAGCGTTTCAAAT
 GAGCAGACGGACCCACAGACGCAGAGCAAGAAAAAGAACAGGAAAGCCCGGAGAACTG
 GATAAAAAAGAAAAAAAATGATAAAGAAGAAGTACCCTTTCTACCTGGCTCCATCCGC
 GAGGAGAACGGCGTGCCTGGCATGTGTGTCCCTACTGCGCCAAGGAGTTCGCAAGCCC
 AGCGACCTGGTCCGCCACATCCGCATCCACACCCACGAGAAGCCCTTCAAGTGCCCGCAG
 TGCTTCCGCGCCTTCGCCGTGAAGAGCACGCTGACAGCGCACATCAAGACGCACACCGGC
 ATCAAGGCGTTCAAGTGCCAGTACTGCATGAAGAGCTTCTCCACCTCTGGCAGCCTCAAG
 GTGCACATTTCGCTGCACACAGGAGTTAGACCTTTTGCTTGTCTCACTGTGACAAAAAA
 TTTTGAACCTCAGGCCATAGGAAGACTCACATTGCTTCCCACTTTAAACATACGGAATTA
 AGGAAAATGAGGCACCAGCGTAAACCTGCAAAGGTCCGTGTTGGCAAGACGAATATTCCA
 GTCCCTGATATTCTTTTGAGGAACCAATCCTCATAACTGACTTAGGTCTCATCCAGCCC
 ATTTCAAAAAACAGTTTTTCCAAAGCTATTTCAATAATAATTTTGTCAATGAAGCAGAT
 AGACCATACAAGTGTTTTTACTGTTCATCGTGCATATAAAAAATCTTGCCACCTTAAACAA
 CACATCAGATCCCATACAGGTGAAAAACCTTTTAAATGTTCTCAGTGTGGAAGAGGCTTT
 GTTTCTGCAGGCGTGTCTCAAAGCACACATCAGAACACACACAGGACTGAAATCTTTCAAG
 TGTCTGATATGTAATGGGGCTTTTCACTACTGGTGGCAGCTTACGGCGACACATGGGTATC
 CACAACGACCTTCGTCCCTATATGTGTCCCTATTGCCAAAAAACATTTAAGACTTCACTA
 AATTGCAAAAAGCACATGAAAACCCACAGATATGAGCTTGCCAGCAGCTCCAACAGCAT
 CAGCAGGCAGCCTCGATAGATGACAGCACTGTAGACCAGCAGAGCATGCAGGCCTCCACT
 CAAATGCAGGTGGAGATCGAGAGCGACGAGCTGCCGAGACGGCAGAGGTGGTTCGCAGCG
 AACCCCGAGGCCATGCTGGACCTGGAGCCTCAGCATGTGGTGGGCACGGAGGAAGCAGGG
 CTGGGCCAGCAGTTGGCAGATCAGCCCCTGGAAGCAGATGAAGATGGGTTTGTGGCTCCA
 CAGGACCCTCTGCGAGGGCACGTAGACCAGTTTGAAGAGCAGAGCCCTGCGCAACAGTCC
 TTCGAACCAGCAGGGCTACCCCAAGGTTTTACAGTGAAGTACGTACCATCAGCAGCCT
 CAGTTTTCCACCTGTCCAACAGCTACAGGATTCCAGCACACTTGAGTCTCAGGCCCTCTCC
 ACAAGCTTCCACCAGCAGAGCTTGCTGCAGGCTCCCAGCTCTGATGGGATGAATGTAACA
 ACTCGCTTGATTTCAGGAGTCATCCAAGAGGAACTGGACCTGCAGGCACAAGGTTCCCAG
 TTTCTGGAGGACAACGAGGACCAGAGCAGGCGCTTTACAGGTGTGACTATTGCAACAAA
 GGCTTTAAGAAGTCCAGCCACCTGAAGCAGCATGTGCGGTGCGACACCGGGGAAAAGCCC
 TACAAGTGCAAGCTCTGTGGACGCGGCTTTGTTTTCTCTGGGGTCTCAAGTCCCACGAG
 AAGACACACACAGGAGTGAAGGCGTTTCAGCTGCAGTGTGTGCAATGCTTCCTTACCACC
 AATGGCAGCCTCACCCGGCACATGGCCACACATATGAGCATGAAGCCTTATAAGTGTCCG
 TTTTGTGAGGAGGGTTTCCGAACTACAGTGCATTGTAAAAAGCACATGAAGAGACACCAA

FIGURE 1 (CONT'D)

ACAGTCCCCTCTGCTGTGTGTCAGCCACTGGAGAGACAGAAGGAGGAGACATTTGTATGGAG
GAAGAGGAAGAACATTCTGACAGAAATGCATCACGGAAGTCTCGTCCTGAGGTCACTACT
TTCACGGAGGAGGAGACAGCCCAGTTAGCCAAGATCCGGCCGAGGAGAGCGCCACGGTG
TCAGAGAAGGTCTGGTGCAGTCCGCGGCAGAAAAGGACCGCATCAGTGAGCTGAGGGAC
AAGCAGGCGGAGCTGCAGGACGAGCCCAAGCACGCCAACTGCTGCACATACTGCCCCAAG
AGCTTCAAGAAACCTAGCGACCTGGTGAGGCATGTTTGAATCCATACTGGAGAAAAGCCA
TACAAATGTGATGAATGTGGAAAGAGTTTTACTGTGAAATCCACTCTCGATTGTCTATGTG
AAGACTCACACAGGTGAGAAGCTCTTCAGCTGTACGTCTGCAGCAACGCCTTCTCCACG
AAGGGAAGTCTGAAGGTCCACATGCGCCTGCACACGGGAGCCAAGCCCTTCAAATGCCCG
CATTGCGAGCTGCGTTTTCCGTACCTCGGGTAGAAGAAAGACACACATGCAGTTTTATTAT
AAACCAGACCCAAAGAAGGCCAGAAAGCCTATGACTCGAAGCTCATCGGAAGGACTGCAG
CCTGTAAACCTCCTCAACTCCTCCTCTACTGACCCAAACGTGTTTTATCATGAACAACTCT
GTTCTAACAGGACAGTTTTGATCAGAATCTGCTGCAACCAGGACTGGTGGGCCAAGCTATT
CTCCCTGCCTCTGTGTGTCAGCTGGGGGTGACCTGACCGTGTCTCTGACAGATGGGAGCCTG
GCTACCCTAGAAGGCATCCAGTTACAGTTGGCTGCTAACTTGGTTGGACCAAATGTACAG
ATTTCTGGAATCGATGCTGCCAGCATTAATAACATTACGTTGCAGATTGATCCAAGCATT
CTGCAGCAGACGCTACAGCAGGGCAACCTATTGGCTCAGCAGCTCACGGGGGAGCCTGGC
CTGGCCCCACAGAACAGCTCTCTCCAGACATCGGACAGCACGGTCCCTGCCAGTGTTGTC
ATCCAGCCCATCTCAGGCCTGTCTTACAGCCCACAGTGACCTCTGCGAACCTGACCATA
GGCCCCGCTGTCTGAGCAGGATTGAGTGCTGACCACTAACAGCAGTGGGACCCAAGACCTC
ACTCAAGTGATGACTTCGCAAGGTCTAGTGTCCCCCTCCGGCGGTCCCCACGAGATCACC
CTGACCATTAAACAACTCCAGCCTGAGCCAGGTCTTGGCACAGGCCGCTGGGCCCCACTGCC
ACGTCTTCTCGGGGTCTCCACAGGAAATTACCCTGACTATCTCCGAACCTTAACACTACA
AGCGGAAGCCTTCTTCAACAACACCGATGTCTCCATCGGCCATCTCGACTCAGAACCTG
GTCATGTCTCTCGTCGGGCGTGGGAGGTGACGCTAGTGTACGCTGACGCTGGCCGATACT
CAGGGTATGCTATCTGGAGGCCTGGACACTGTCACTCAACATCACCTCTCAGGCAATA
CTAATCTTTTTGCCAGGGTCAGCAGTTCCAGCGCTCCTCACGGATCCCTCTCTCTCGGGC
CAGGGTGGAGCAGGCTCGCCGCAAGTCATACTAGTGAGCCACACGCCACAGTCAGCGTCT
GCTGCTTGTGAAGAAATAGCCTACCAGGTAGCTGGCGTCTCTGGGAACCTGGCCCCGGGC
AACCAGCCAGAGAAGGAGGGCCGGGCGCACCGAGTGCCTGGAGTGTGACCGCGCCTTCTCA
TCGGCGGCGGTGCTCATGCACACAGCAAGGAGGTGCATGGCCGGGAGCGCATCCACGGC
TGCCCCGTGTGCAGGAAGGCCTTCAAGCGCGCCACGCACCTCAAGGAGCACATGCAGACA
CACCAGGCCGGCCCCCTCTTTGAGCTCCCAGAAGCCAAGAGTGTAAATGTGACACTTGT
GAGAAGGCATTTGCCAAACCAAGCCAGCTGGAGCGCCACAGCCGCATACATACAGGGGAG
CGGCCGTTCCATTGCACGCTTTGTGAGAAAGCCTTCAACCAGAAGAGTGCCTGTCAGGTG
CACATGAAGAAGCACACGGGGGAGCGGCCCTACAAGTGTGCCTACTGCGTCATGGGCTTC
ACGCAGAAGAGCAACATGAAGCTGCACATGAAGCGGGCGCACAGCTATGCTGGAGCTCTG
CAGGAGTCTGCAGGTCAACCGGAGCAGGACGGGGAGGAGCTGAGCCGGACCTCCACCTG
GAGGAGGTGGTGCAGGAGGCCGCGGCGAGTGGCAGGCCCTCACCCACGTCTTCTGATGC
GAGTTGGAAGTACACCTTTAAGAATGTTTCTGAAGTTACGTTTTGTGAAGAGCAAAGCAC
TTGGAATCTCCGTTTTAAAGCTTCAAGTGTTAAAAATGCTACAATAGTTTTTTTATCTATA
AAATTATCTAAAGAATCATTGTCTTTTCTAGAGACTCATAGGAAAAAAAAAACTAGGAAAAGT
GTCACCGCATTGTTCTCTTTTGTCTACAAATCACTGAACTCAGGTACTACTGTAGGCAGT
TTCCTCCTCAGTCTCCTCCGTGGCTAGTGTGTCTAGTTACGAAGCAATTAACCTGGGTCT
TACTATCATTGTAGTGTGATTTCTTTGTATTAGCAAAGACAAAAACGCTAACATTGAAAA
AGTATGTCAGATTTTCTTTCATGTTTCTGGTTATAAGAAGCATAGCTTACAAAGCAAGCG
TAAGATTGAGGCATGAAGTTTCAAGAAAAAAGTGTTACAACACACAGGGAAGTTTTTTCC
ACTCTTTTCTCTGTGCATTTTGAATAATTAGTCAAAATGGACTCTTTTTCAGTCTACCATAA
GTTAATATAACTGATACCTTGAGAGATGGCTGGACCAATTCTCTCCATGACAAATGTTTA
ATCATTAGTTACAAGAATGCAGTATCTGGGGCGTCAACATGGGGACTCGAGTAAACCTGA
CCCACCAATAAGGATTGAGCTGTCCACACGGGCTGGCGACACACTTACCGCATCAATCTG
TGTTCAGGTCCAGGGTTACATAATTGCAGAAGCAAGCCATACATCGCAGGTAGGAAAC
CACAGAACCGTCTGCAAGGAGCAAGCAACGGTGGCCCTGTCCACCCAGCAAATAAGAAG
CATATCTGTAGCTTAAGGCCACGAATCCGTAAAAACCCCATGACTTTCTCTTCGTGCATA

FIGURE 1 (CONT'D)

AACAGATGTATTTTTGATTTTCAGGGAATTCTTTAGTATCGTCAATGGTGCCACATAAAAC
 ATGTCCCAAACCAAATCCCACCCGTGCTGGGCAGAGTGCCTGCACGCCATTCTACAGCA
 TTCAAAGATGGAAGGTTCTTTACTTCATGTTAATTTTTCTTTGAAATTATTTATATGT
 TCTATATATAAATACATATGTACATAGATATATGGGCCTCTGTGTGGCTGAACAGTATAT
 TTTGTAAATATAAGTACTAGTCCTAATTGCAGAAAGAGCGTCAGTTTCACCTCCCCACGA
 GCACTTCAGATCAGTATTGTATTCAATTTATTATATAAATGGATATCTTTTTTCATTGT
 ATAAAGCTGGGTTTTATTTTTTTTTCTTGAAAAATAATTGCCTTTATTTTTCTCTCGTTGC
 CTCCTTGGTTTTCAGAAGAGAGTAGTTTTATTATAAATATTGTATGGACTTTGTATATTAA
 GAGAGGAGCTCATTTTCAGATTCTTAAAGAAATAGACATTTTACTGTTATTTTTGAAAGGGC
 ATCTTTTGATTTTTTTGTTGTTGTTGTTCACTTTTGGCATATGTATATAAGTAATATTGA
 CGGTGATATGAAACTTTTGTATGTGAAGATATTTAAGTCAGAAAATTGTTAAATAATA
 TTAATTTCTTTTCAAACCTGCTTTGTGTATTGTATATTTTTTTAAGAAAAAGAAAAGCCTT
 ATTTGACTTATGCTTGTGATACTGGACTTCTTACCAATCCGGAGGTTTCCTTCCTTGAAT
 GTCAGTGTGTAAACCTGGCTGTAGCCGCATATGCAGAATAACTGTAATTGTGCTAGAGTT
 TTAAAGGTTCTGCTTTTAAATGCATTTTTATTATTTATAATTTTGTATTGAAATATTTTGA
 AATGTTGATTAATTTTTGGTGAAAAAATATCCCCAAAGTGGAATTTATTGGAATTTTAAAC
 TTTTGTCTTGTCTGGGTTATTTATTTTGATTTTAGCATTAATGTCTCTCAGGACATCT
 CTAAAGGGGTTGTTTAAATCCTAATTGTATAGAAAGCTAGTTTGGTGAATTGTATTGGT
 TAATTGACTGTTTAAAGGCCTTAAACAGGTGAATCTAGAGCCTACTTTTATTTTGGTTAAAG
 AAAAAGAAAATATCAATAATTCAATTTTGTGTCTTTTCTCAATTTATTAGCAACACAAG
 ACATTTTATGTATTATTTTCGATTTACTTCTAATTATAAAAGCTGCTTTTTTGCAGAAC
 TTCCTTGAAAATATAAGGTTTGAAGACATAATTTTACTTGAATCTTTGTGGGTACA
 GGTGATCTTTATATTTTACTGGTTGTTTAAAAAATTCTAGAAAAGAGATTTCTAGGCCT
 CATGTATAACCAGGGTTTTGAGGATAAAGAACTGTATTTTTAGAACTATCTCATCATAGC
 ATATCTGCTTTGGAATAACTATAAATAAAAGATGAAGTTAGG

Gene 19. >ENST00000253159 cDNA sequence

GCCTGGAAACTACAAAGGATTGTGTTAATTTTTGTGTTTAGGAAGAAAGAGGTAATGGGTA
 GGAATCAATGTAAACTTATTATAGGCCACACCAAACAGGAATTCTTGTCTGTGATTGCA
 CTTGGTAGAGTTAACACACGTGCACATTACGGAAACGTTGGTGACCAACAGGCGTTTCAG
 CGAGCTTTTCGCACACCTCATGGGCCTTTGTGGGCTGCTGGAGAGATGTTGGCTGCACCAT
 GACCCAGATGGAGTTTTAACATTGAATGCGGAGAACACTAATTATGCCTATCAAGTTCCA
 AACTTCCATAAATGTGAAATCTGTCTACTATCTTTTTCCAAAAGAATCCAGTTTCAACGC
 CACATGAGGGATCACGAGCGAAATGACAAGCCACATCGATGTGACCAAGTCCCCCAAACA
 TTTAATGTTGAATTCAACCTGACATTCATAAATGCACCCACAGCGGGGAAGATCCTACC
 TGCCCTGTGTGTAACAAGAAATTCTCCAGAGTGGCTAGTCTCAAAGCGCATATTATGCTA
 CATGAAAAGGAAGAGAATCTCATCTGTTCTGAGTGTGGGGATGAGTTTACTCTGCAGAGT
 CAGCTGGCCGTGCACATGGAGGAGCACCGCCAGGAGCTGGCTGGAACCCGGCAGCATGCC
 TGCAAGGCCTGCAAGAAAGAGTTGAGACCTCCTCGGAGCTGAAGGAACACATGAAGACT
 CATTACAAAATTAGGGTATCAAGTACAAGGTCTTATAACCGGAATATCGACAGAAGTGGA
 TTCACGTATTCTGTGTCCGCACTGTGGAAAGACGTTTCAAAGCCAAGCCAGTTAACGCGA
 CACATTAGGATACACACAGGTGAAAGGCCGTTCAAATGTAGTGAATGTGGAAAGGCTTTT
 AACCAGAAGGGGGCACTGCAGACCCACATGATCAAGCACACAGGTGAAAAACCCATGCC
 TGTGCCTTCTGTCTGCGCCCTTCTCTCAGAAAGGAATCTTCAGTCGCACGTGCAGCGA
 GTCCACTCAGAGGTCAAGAATGGTCTACCTATAACTGTACAGAATGTAGTTGTGTATTT
 AAAAGTTTAGGCAGCTTAAACACGCATATCAGCAAGATGCATATGGGTGGGCCACAGAAT
 TCAACAAGTTCTACAGAGACTGCTCATGTTTTAACGGCCACACTTTTTTCAGACGTTACCT
 CTTCAACAGACGGAAGCCCAAGCCACGTCCGGCCTCAAGCCAGCCGAGCTCCCAGGCGGTG
 AGCGACGTCTCCAGCAGCTCCTGGAGCTCTCAGAGCCGGCGCCGGTGGAGTCGGGGCAG
 TCCCCGAGCCTGGGCAGCAGCTGAGCATCACAGTGGGCATCAACCAGGACATTTTACAG
 CAAGCCTTAGAAAACAGTGGGCTGTCTTCAATTCCAGCTGCAGCACATCCTAATGACTCC
 TGCCATGCCAAGACCTCTGCACCACACGCTCAAAACCCAGATGTTTTCCAGCGTTTCAAAT
 GAGCAGACGGACCCACAGACGCAGAGCAAGAAAAAGAACAGGAAAGCCCGGAGAACTG
 GATAAAAAAGAAAAAAAATGATAAAGAAGAAGTCACCGTTTTCTACCTGGCTCCATCCGC
 GAGGAGAACGGCGTGCCTGGCATGTGTGTCCCTACTGCGCCAAGGAGTTCCGCAAGCCC

FIGURE 1 (CONT'D)

AGCGACCTGGTCCGCCACATCCGCATCCACACCCACGAGAAGCCCTTCAAGTGCCCGCAG
 TGCTTCCGCGCCTTCGCCGTGAAGAGCACGCTGACAGCGCACATCAAGACGCACACCGGC
 ATCAAGGCGTTCAAGTGCCAGTACTGCATGAAGAGCTTCTCCACCTCTGGCAGCCTCAAG
 GTGCACATTTCGCTGCACACAGGAGTTAGACCTTTTGTCTGTCTCACTGTGACAAAAA
 TTTTCGAACCTCAGGCCATAGGAAGACTCACATTGCTTCCCACTTTAAACATACGGAATTA
 AGGAAAATGAGGCACCAGCGTAAACCTGCAAAGGTCCGTGTTGGCAAGACGAATATTCCA
 GTCCCTGATATTCTTTTCAGGAACCAATCCTCATAACTGACTTAGGTCTCATCCAGCCC
 ATTCAAAAAACAGTTTTTTCAAAGCTATTTCAATAATAATTTTGTCAATGAAGCAGAT
 AGACCATAACAAGTGTTTTTACTGTTCATCGTGCATATAAAAAATCTTGCCACCTTAAACAA
 CACATCAGATCCCATACAGGTGAAAAACCTTTTAAATGTTCTCAGTGTGGAAGAGGCTTT
 GTTTCTGCAGGCGTGCTCAAAGCACACATCAGAACACACACAGGACTGAAATCTTTCAAG
 TGTCTGATATGTAATGGGGCTTTCACTACTGGTGGCAGCTTACGGCGACACATGGGTATC
 CACAACGACCTTCGTCCCTATATGTGTCCCTATTGCCAAAAACATTTAAGACTTCACTA
 AATTGCAAAAAGCACATGAAAACCCACAGATATGAGCTTGCCAGCAGCTCCAACAGCAT
 CAGCAGGCAGCCTCGATAGATGACAGCACTGTAGACCAGCAGAGCATGCAGGCCTCCACT
 CAAATGCAGGTGGAGATCGAGAGCGACGAGCTGCCGACAGCGCAGAGGTGGTGCAGCG
 AACCCCGAGGCCATGCTGGACCTGGAGCCTCAGCATGTGGTGGGCACGGAGGAAGCAGGG
 CTGGGCCAGCAGTTGGCAGATCAGCCCCTGGAAGCAGATGAAGATGGGTTTGTGGCTCCA
 CAGGACCTCTGCGAGGGGCAGTAGACCAGTTTGAAGAGCAGAGCCCTGCGCAACAGTCC
 TTCGAACCAGCAGGGCTACCCCAAGGTTTTACAGTGACTGATACGTACCATCAGCAGCCT
 CAGTTTTCCACCTGTCCAACAGCTACAGGATTCCAGCACACTTGAGTCTCAGGCCCTCTCC
 ACAAGCTTCCACCAGCAGAGCTTGCTGCAGGCTCCAGCTCTGATGGGATGAATGTAACA
 ACTCGCTTGATTAGGAGTTCATCCCAAGAGGAACTGGACCTGCAGGCACAAGGTTCCAG
 TTTCTGGAGGACAACGAGGACCAGAGCAGGCGCTTTACAGGTGTGACTATTGCAACAAA
 GGCTTTAAGAAGTCCAGCCACCTGAAGCAGCATGTGCGGTGCGACACCGGGGAAAAGCCC
 TACAAGTGCAAGCTCTGTGGACGCGGCTTTGTTTTCTCTGGGGTCTCAAGTCCACAGAG
 AAGACACACACAGGAGTGAAGGCGTTAGCTGCAGTGTGTGCAATGCTTCCTTCACCACC
 AATGGCAGCCTCACCCGGCACATGGCCACACATATGAGCATGAAGCCTTATAAGTGTCCG
 TTTTGTGAGGAGGGTTTTCCGAACCTACAGTGCAATTGTAAAAAGCACATGAAGAGACACCAA
 ACAGTCCCCTCTGCTGTGTGAGCCACTGGAGAGACAGAAGGAGGAGACATTTGTATGGAG
 GAAGAGGAAGAACATTCTGACAGAAATGCATCACGGAAGTCTCGTCTGAGGTCACTACT
 TTCACGGAGGAGGAGACAGCCCAGTTAGCCAAGATCCGGCCGACAGGAGAGCGCCACGGTG
 TCAGAGAAGGTCTGGTGCAGTCCGCGGCAGAAAAGGACCGCATCAGTGAGCTGAGGGAC
 AAGCAGGCGGAGCTGCAGGACGAGCCCAAGCACGCCAACTGCTGCACATACTGCCCAAG
 AGCTTCAAGAAACCTAGCGACCTGGTGAGGCATGTTTGAATCCATACTGGAGAAAAGCCA
 TACAAATGTGATGAATGTGGAAAGAGTTTTACTGTGAAATCCACTCTCGATTGTGATGTG
 AAGACTCACACAGGTGAGAAGCTCTTCAGCTGTACGTCTGCAGCAACGCCTTCTCCACG
 AAGGGAAGTCTGAAGGTCCACATGCGCCTGCACACGGGAGCCAAGCCCTTCAAATGCCCG
 CATTGCGAGCTGCGTTTTCCGTACCTCGGGTAGAAGAAAGACACACATGCAGTTTCATTAT
 AAACCAGACCCAAAGAAGGCCAGAAAGCCTATGACTCGAAGCTCATCGGAAGGACTGCAG
 CCTGTAAACCTCCTCAACTCCTCCTCTACTGACCCAAACGTGTTTATCATGAACAACTCT
 GTTCTAACAGGACAGTTTGTATCAGAATCTGCTGCAACCAGGACTGGTGGGCCAAGCTATT
 CTCCCTGCCTCTGTGTGAGCTGGGGGTGACCTGACCGTGTCTCTGACAGATGGGAGCCTG
 GCTACCCTAGAAGGCATCCAGTTACAGTTGGCTGCTAACTTGGTTGGACCAAATGTACAG
 ATTTCTGGAATCGATGCTGCCAGCATTAATAACATTACGTTGCAGATTGATCCAAGCATT
 CTGCAGCAGACGCTACAGCAGGGCAACCTATTGGCTCAGCAGCTCACGGGGGAGCCTGGC
 CTGGCCCCACAGAACAGCTCTCTCCAGACATCGGACAGCACGGTCCCTGCCAGTGTTGTC
 ATCCAGCCCCTCTCAGGCCTGTCTTACAGCCCACAGTGACCTCTGCGAACCTGACCATA
 GGCCCGCTGTCTGAGCAGGATTAGTGCTGACCACTAACAGCAGTGGGACCCAAGACCTC
 ACTCAAGTGATGACTTCGCAAGGTCTAGTGTCCCCCTCCGGCGGTCCCCACGAGATCACC
 CTGACCATTAACTCAGCCTGAGCCAGGTCTGGCACAGGCCGCTGGGCCCACTGCC
 ACGTCTTCTCGGGGTCTCCACAGGAAATTACCCTGACTATCTCCGAGGTTCCAGGTCTG
 TGCAGCACAGTGTGGGACCCAGGAGTGTGGATCTGTGGAGGCATTGTATTTGGAGAACT
 CCAGCGACAAAACCTTAACACTACAAGCGGAAGCCTTCCTTCAACAACACCGATGTCTCCA

FIGURE 1 (CONT'D)

TCGGCCATCTCGACTCAGAACCTGGTCATGTCCTCGTCGGGCGTGGGAGGTGACGCTAGT
 GTCACGCTGACGCTGGCCGATACTCAGGGTATGCTATCTGGAGGCCTGGACACTGT CACA
 CTCAACATCACCTCTCAGGGTCAGCAGTTCACAGCGCTCCTCACGGATCCCTCTCTCTCG
 GGCCAGGGTGGAGCAGGCTCGCCGCAAGTCATACTAGTGAGCCACACGCCACAGTCAGCG
 TCTGCTGCTTGTGAAGAAATAGCCTACCAGGTAGCTGGCGTCTCTGGGAACCTGGCCCCG
 GGCAACCAGCCAGAGAAGGAGGGCCGGGCGCACCAGTGCCTGGAGTGTGACCGCGCCTTC
 TCATCGGCGGCGGTGCTCATGCACCACAGCAAGGAGGTGCATGGCCGGGAGCGCATCCAC
 GGCTGCCCCGTGTGCAGGAAGGCCTTCAAGCGCGCCACGCACCTCAAGGAGCACATGCAG
 ACACACCAGGCCGGCCCCCTCTTTGAGCTCCAGAAGCCAAGAGTGTTTAAATGTGACACT
 TGTGAGAAGGCATTTGCCAAACCAAGCCAGCTGGAGCGCCACAGCCGCATACATACAGGG
 GAGCGGCCGTTCCATTGCACGCTTTGTGAGAAAGCCTTCAACCAGAAGAGTGCCTGCAG
 GTGCACATGAAGAAGCACACGGGGGAGCGGCCCTACAAGTGTGCCTACTGCGTCATGGGC
 TTCACGCAGAAGAGCAACATGAAGCTGCACATGAAGCGGGCGCACAGCTATGCTGGAGCT
 CTGCAGGAGTCTGCAGGTCAACCGGAGCAGGACGGGGAGGAGCTGAGCCGGACCCTCCAC
 CTGGAGGAGGTGGTGCAGGAGGCCGCCGGCGAGTGGCAGGCCCTCACCCACGTCTTCTGA
 TGCAGAGTTGGAAGTACACCTTTAAGAATGTTTCTGAAGTTACGTTTTGTGAAGAGCAAAG
 CACTTGAATCTCCGTTTTTAAAGCTTCAAGTGTTAAAAATGCTACAATAGTTTTTTATCT
 ATAAAATTATCTAAAGAATCATTGTCTTTCAGAGACTCATAGGAAAAAAAAAACTAGGAAA
 AGTGTCAACGCATTGTTCTCTTTGTCTACAAATCACTGAAGTCAAGTACTACTGTAGGC
 AGTTTCCTCCTCAGTCTCCTCCGTGGCTAGTGTGTCTAGTTCACGAAGCAATTAAGTGGG
 TCTTACTATCATTGTAGTGTGATTTCTTTGTATTAGCAAAGACAAAAACGCTAACATTGA
 AAAAGTATGTGAGATTTTCTTTCATGTTTCTGGTTATAAGAAGCATAGCTTACAAAGCAA
 GCGTAAGATTGAGGCATGAAGTTTCAAGAAAAAAGTGTTACAACACACAGGGAAGTTTTT
 TCCACTCTTTTCTCTGTGCATTTTGAAGAAATTAGTCAAAATGGACTCTTTTTCAGTCTACCA
 TAAGTTAATATAACTGATACCTTGAGAGATGGCTGGACCAATTCTCTCCATGACAAATGT
 TTAATCATTAGTTACAAGAATGCAGTATCTGGGGCGTCAACATGGGGACTCGAGTAAACC
 TGACCCACCAATAAGGATTGAGCTGTCCACACGGGCTGGCGACACACTTACCGCATCAAT
 CTGTGTTTCAAGGTCCAGGGTTACATAATTGCAGAAGCACAAAGCCATACATCGCAGGTAGGA
 AACCACAGAACCCTCTGCAAGGAGCAAGCAACGGTGGCCCTGTCCACCCAGCAAATAAG
 AAGCATATCTGTAGCTTAAGGCCACGAATCCGTAAAAACCCCATGACTTTTCTCTTCGTGC
 ATAAACAGATGTATTTTTGATTTTCAAGGAATTCTTTAGTATCGTCAATGGTGCCACATAA
 AACATGTCCCAAACCAATCCCACCCGTGCTGGGCAGAGTGCCTGCACGCCATTCTTACA
 GCATTCCAAAGATGGAAGGTTCTTTACTTCATGTTAATTTTTCTTTGAAATTATTTATA
 TGTCTATATATAAATACATATGTACATAGATATATGGGCCTCTGTGTGGCTGAACAGTA
 TATTTTGTAAATATAAGTACTAGTCCTAATTGCAGAAAGAGCGTCAGTTTTCACCTCCCCA
 CGAGCACTTCAGATCAGTATTGTATTCTTTTATTTCATAAATGGATATCTTTTTCTCTCGT
 CATATAAAGCTGGGTTTTATTTTTTTTTCTTGAAAAATAATTGCCTTTATTTTCTCTCGT
 TGCCTCCTTGGTTTTCAGAAGAGAGTAGTTTTATTATAAATATTGTATGGACTTTGTATAT
 TAAGAGAGGAGCTCATTTTCAGATTCTTAAAGAAATAGACATTTTACTGTTATTTTGAAAG
 GGCATCTTTTGATTTTTTTGTTGTTGTTGTTCACTTTTGGCATATGTATATAAGTAATAT
 TGACGGTGATATGAAAACCTTTTGTATTGTGAAGATATTTAAGTCAGAAAATTGTTAAATA
 ATATTACTTCTTTTCCAAACTGCTTTGTGTATTGTATATTTTTTTAAGAAAAAGAAAAGC
 CTTATTTGACTTATGCTTGTGATACTGGACTTCTTACCAATCCGGAGGTTTCTTTCCTTG
 AATGTCAGTGTGTAAACCTGGCTGTAGCCGCATATGCAGAATAACTGTAATTGTGCTAGA
 GTTTTAAAGGTTCTGCTTTTAAATGCACTTTTATTTTATAATTTTGTATTGAAATATTTT
 AGAAATGTTGATTAATTTTGGTGAAAAAATATCCCCAAAGTGGAATATTGGAATTTTA
 AACTTTTGTCTTGTCTGGGTTATTTATTTTGTATTTTAGCATTAAATGTCATCTCAGGACA
 TCTCTAAAAGGGGTTGTTTAAATTCCTAATTGTATAGAAAGCTAGTTTGGTGAATTGTATT
 GGTAAATTGACTGTTTAAAGGCCTTAACAGGTGAATCTAGAGCCTACTTTTATTTTGGTTA
 AAGAAAAAGAAAATATCAATAATTCAATTTTGTGTCTTTTCTCAATTTATTAGCAAAACAC
 AAGACATTTTATGTATTATTTTCGATTTACTTCTAATTATAAAAGCTGCTTTTTTGCAGA
 ACATTCTTGAAGAAATATAAGGTTTTGAAAAGACATAATTTTACTTGAATCTTTGTGGGGT
 ACAGGTTGATCTTTATATTTTACTGGTTGTTTTAAAAATTCTAGAAAAGAGATTTCTAGG
 CCTCATGTATAACCAGGGTTTTGAGGATAAAGAACTGTATTTTAGAAGTATCTCATCAT

FIGURE 1 (CONT'D)

AGCATATCTGCTTTTGAATAACTATAAATAAAAGATGAAGTTAGG

Gene 20. >ENST00000327986 cDNA sequence

CACCACCATCATCTCCAGGTGCATGGGAGAACCCTCTCCAAGAGAACCCTACCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAAGCCCCCAGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCTGGGAGACTCCCCCAGGAGACCCCCCGGGAGACTCCCCCAGGAGA
CCCCCCTCCAGGAGAACCCTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGAC
TCCCCCAGGAGATACCTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGACTC
TCCCCCAGGAGACTCCCTCCTCCAGAACCCTCCAGGAGACTCCCCCAGGAGACTCCCC
CTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGACTCCCCCTCCAGGAGCCCCC
CTCCAGGAGACTCCCCCAGGAGACTCCCCCAGGAGAACCCTAACATCCACAA
GCCCC

Gene 21. >ENST00000318747 cDNA sequence

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTCACAGA
AGAGACCCTCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATG
CCAGGCATGGCTTCTCCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCT
TCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGGACTCACACCACCCGG
CAAGAACTGCTCACTACGGCTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAA
ACCCCGTAGTCCACTTCTTCAAGAACATTGTGACGCCTCGCACACCACCCCGTCGCAGG
GAAAGGGGAGAGGACTGTCCCTGAGCAGATTTAGCTGGGGGGCCGAAGGCCAGAGACCAG
GATTTGGCTACGGAGGCAGAGCGTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAG
TCGATGCCCAGGGCAGCTTTTCAAAATTTTAAAGCTGGGAGGAAGAGATAGTCGCTCTG
GATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCCGGAATCCTGTCTCAGCTTCT
TAATATAACTGCCTTAAAACTTTAATCCCACTTGCCCCTGTTACCTAATTAGAGCAGATG
ACCCCTCCCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTAC
CGGCAATTTCCGGCCAACAGTTAAATGAGAACATGAAAACAGAAAACGGTTAAAACTGTC
CCTTTCTGTGTGAAGATCACGTTTCTTCCCCCGCAATGTGCCCCCAGACGCACGTGGGTG
TTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTTACCCCTCCACCCCTTGGACTTTCT
TTTCGCCGTGGCTGCGGCACCCTTGCGCTTTTGTCTGGTCACTGCCATGGAGGCACACAGC
TGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCTTTTGT
TTTTTTTTCTGTCTTCTCTCACCTCCTAAAGTAGACTTCATTTTTCTTAACAGGATTA
GACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGCGGGCTGGG
CAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAGGCCGTGGC
TGCCCAACACCCCAATTAGCTGAATTTCGCGTGTGGCAGAGGGAGGAAAAGGAGGCAAAAC
GTGGGCTGGGCAATGGCCTCACATAGGAAAACAGGGTCTTCTGGAGATTTGGTGATGGAG
ATGTCAAGCAGGTGGCCTCTGGACGTACCGTTGCCCCTGCATGGTGGCCCCAGAGCAGCC
TCTATGAACAACCTCGTTTCCAAACACAGCCACAGCCGGAGAGTCCAGGAAGACTTGC
GCACTCAGAGCAGAAGGGTAGGAGTCTCTAGACAGCCTCGCAGCCGCGCCAGTCGCCCCA
TAGACACTGGCTGTGACCGGGCGTGCTGGCAGCGGCAGTGACAGTGGCCAGCACTAACCC
CTCCCTGAGAAGATAACCGGCTCATTCACTTCTCCAGAAGACGCGTGGTAGCGAGTAG
GCACAGGCGTGCACCTGCTCCCGAATTACTCACCGAGACACACGGGCTGAGCAGACGGCC
CCGTGGATGGAGACAAAGAGCTCTTCTGACCATATCCTTCTTAACACCCGCTGGCATCTC
CTTTTCGCGCCTCCCTCCCTAACCTACTGACCCACCTTTTGATTTTAGCGCACCTGTGATT
GATAGGCCTTCCAAAGAGTCCCACGCTGGCATCACCTCCCCGAGGACGGAGATGAGGAG
TAGTCAGCGTGATGCCAAAACGCGTCTTCTTAATCCAATTCTAATTCTGAATGTTTCGTG
TGGGCTTAATACCATGTCTATTAATATATAGCCTCGATGATGAGAGAGTTACAAAGAACA
AAACTCCAGACACAAACCTCCAAATTTTTCAGCAGAAGCACTCTGCGTCTGCTGAGCTGAG
GTCGGCTCTGCGATCCATACGTGGCCGCACCCACACAGCAGTGTGCTGTGACGATGGCTGA
ACGGAAGTGTACACTGTTCTGAATATTGAAATAAAACAATAAACTTTT

Gene 22. >ENST00000281193 cDNA sequence

CCTGGATGTGATGGCGTCACAGAAGAGACCCTCCAGAGGCACGGATCCAAGTACCTGGC
CACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCTCCCAAGGCACAGAGACACGGG

FIGURE 1 (CONT'D)

CATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTC
TGGCAAGGTACCCTGGCTAAAGCCGGGCGGAGCCCTCTGCCCTCTCATGCCCGCAGCCA
GCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGCAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTACACGGCCGGACCCAAGATGAAAACCCGTAAGTCCACTTCTT
CAAGAACATTGTGACGCCTCGCACACCACCCCGTCGCAGGGAAAGGGGGCCGAAGGCCA
GAGACCAGGATTTGGCTACGGAGGCAGAGCGTCCGACTATAAATCGGCTCACAAGGGATT
CAAGGGAGTCGATGCCCAGGGCACGCTTTCAAATTTTAAAGCTGGGAGGAAGAGATAG
TCGCTCTGGATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCCGGAATCCTGTCTT
CAGCTTCTTAATATAACTGCCTTAAACTTTAATCCCACTTGCCCTGTACCTAATTAG
AGCAGATGACCCCTCCCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGG
CAGCCTACCGGCAATTTCCGGCCAACAGTTAAATGAGAACATGAAAACAGAAAACGGTTA
AAACTGTCCCTTTCTGTGTGAAGATCACGTTCTTCCCCGCAATGTGCCCCAGACGCA
CGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTACCCCTCCACCCTTG
GACTTTCTTTTTCGCGTGGCTGCGGCACCCCTTGCGCTTTTGTCTGGTCACTGCCATGGAGG
CACACAGCTGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCT
TCCTTTGTTTTTTTTTCTGTCTTCTCTCACCTCCTAAAGTAGACTTCATTTTTCTAA
CAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGC
GGGCTGGGCAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCACACACCCCAATTAGCTG

Gene 23. >ENST00000309607 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCG
CCCTTAATCCATTTAACCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTACCGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACCTCTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCTTTCTATTCCACAAAACCGCCATTGTATCATATGGCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 24. >ENST00000253506 cDNA sequence

GAGCCGCCGGGCGGGCGGGGAGGCGGGGAGGTGTTTTCCAGCTTTAAAAGGCAGGAGG
CAGAGCGCGGCCCTGCGTCAGAGCGAGACTCAGAGGCTCCGAACCTCGCCGGCGGAGTCGC
CGCGCCAGATCCCAGCAGCAGGGCGCGGGCACCGGGGCGCGGCAGGGCTCGGAGCCACC
GCGCAGGTCTTAGGGCCGCGGCCGGGCCCCGCCACGCGCGCACACGCCCCCTCGATGACTT
TCCTCCGGGGCGCGCGGCGCTGAGCCCCGGGCGAGGGCTGTCTTCCCGAGACCCGACCC
CGGCAGCGCGGGGCGGCCGCTTCTCCTGTGCCTCCGCCCCGCGCTCCACTCCCCGCGGCC
GCCGCGCGGATGCCAAGCACCAGCTTTCCAGTCCCTTCCAAGTTTCCACTTGGCCCTGCG
GCTGCGGTCTTCCGGAGAGGAGAACTTTGGGGCCCCGCGCCGCGCGCCGGCGGCACCATG
AAGTCAGCGGAGGAAGAACACTATGGCTATGCATCCTCCAACGTAGCCCCGCCCTGCCG
CTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAACCTTCAGACCTCCACACCG
GGCATCATCCCGCCGGCGGATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCC
GCGGGCTACTTCTCTCCTCCGGCCACACCAGGCCTGATGGGGCCCCCTGCCCTGGAGAGT
CCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAACCAGTTTTTCCAC
GATGTGGAGGTGGAAGACGTCTCTCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTG
AGTCTGCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCCTGAGCCCGGCCAGCAGCCTG
TCCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCCAATACTCGTACCCGTAC
GCGTCCCCCAGACGTGCGCATGGCAGTCTCCTGCGTGTCTCCCAAGACCACGGACCCC
GAGGAGGGCTTTCCCCGCGGGCTGGGGGCTGCACACTGCTGGGTTCCTCCGCGGCACTCC
CCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCCGCTCCTCC
AGACCCGCGTCCCCCTTGCAACAAGAGGAAGTACAGCCTCAACGGCCGGCAGCCGCCCTAC
TCACCCACCACTCGCCACGCGCTCCCCGACGGCTCCCCGCGGGTCAGCGTGACCGAC
GACTCGTGGTTGGGCAACACCACCCAGTACACCAGCTCGGCCATCGTGGCCGCCATCAAC
GCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTCCCTGTCAAGTCCCGCAAG
ACCACCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCGGGGAGGACCTG
GGCAGCCCCCGCCCCCGGCGACTTCGCGCCCGAAGACTACTCCTCTTTCCAGCACATC
AGGAAGGGCGGCTTCTGCGACCACTGCTGGCGGTGCCGAGCACCCCTACCAGTGGGCG

FIGURE 1 (CONT'D)

AAGCCCAAGCCCCCTGTCCCTACGTCTACATGAGCCCGACCCCTGCCCGCCCTGGACTGG
 CAGCTGCCGTCCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCCAC
 CACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTGAAGGCGTCGGCCGGAGGA
 CACCCCATCGTGACGTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTC
 ATTGGGACGGCGGACGACCGCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACCGCATC
 ACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCCTG
 GAGATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTATTGACTGTGCCGGAATCCTG
 AAATCAGAACTCCGACATTGAACTTCGGAAGGAGAGACGGACATCGGGAGGAAGAAC
 ACACGGGTACGGCTGGTGTTCGCGGTTACGTCCCGCAACCCAGCGGCCGCACGCTGTCC
 CTGCAGGTGGCCTCCAACCCCATCGAATGCTCCAGCGCTCAGCTCAGGAGCTGCCTCTG
 GTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGGCGGGAAGAAGATGGTCCTGTCT
 GGCCACAACCTTCTGCAGGACTCCAAGGTCAATTTTCGTGGAGAAAGCCCCAGATGGCCAC
 CATGTCTGGGAGATGGAAGCGAAAACTGACCGGGACCTGTGCAAGCCGAATTCTCTGGTG
 GTTGAGATCCCGCCATTTTCGGAATCAGAGGATAACCAGCCCCGTTACGTGAGTTTCTAC
 GTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTACCTACCTTCCCGCCAAC
 GTTCCAATTATAAAAAAGAAACCACTGATGATTATGAGCCTGCTCCAACCTGTGGACCG
 GTGAGCCAGGGGTAAAGTCCTCTCCCAAGACCATACTACAGCCAGCAGCTCGCGATGCCA
 CCGGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCGCAGAGAAGCACCCCTG
 ATGCCAGCGGCCCCCTGGCGTGAGCCCCAAGCTCCACGACCTTTCTCCCGCTGCCTACACC
 AAGGGCGTTGCCAGCCCCGGGCCACTGTACCTCGGACTCCCGCAGCCGGCCGGAGAGGCC
 CCCGCCGTCCAGGACGTGCCAGGCCAGTGGCCACGCACCCCGGCTCGCCCGGGCAGCCA
 CCCCCGGCCCTGCTGCCACAGCAGTAAATGAAATAATACGAAATGACCTCTCCAGCACGA
 GCACCCACTCCTAGTTGCCACATTGGAGCACTCAGTTCAGCAGGGGTATGCTGACTTCAG
 CAGACAAAGACTTTTGAATAAAATAAACTGAACTCACACCTGGTACCACTCAGAACCTCCA
 ACTGACTGAATGCCAGGAGCTGAACATTAATATGTGCAAGATTGGCTCTCCAACAAGAA
 GGAAAGCAGGGAGGAAGGGAGACCACTGTGTACCTGGAGGAGAAGTCATCTCATGACAA
 CAGAAGGGAGGTGGCCGGGCTGAGCACGGGAGACCCACCGTGCAGGGGCCTTTTCATGGGA
 ACGGCCCACACGCAGTTTGAACCCACGCCCAGCCCTTCTGGCACCCCTGGGGTTCAATAC
 TGGAAGTGCTTATTTAACAGACCATCAGGGCATCATAGAATTGAGCATTGAATTTGCT
 ACTGTAGGAGTATTTTTAGGAGCAGAACTGCAACACATTTTATTGTGAGGTTTTACCC
 TCTGTATGAATGAAGAGAACGCTGGAAGGCTGCGAGAGGACTCTAGTATGAGTCTCCAAC
 ATTTGGAACGTTTCTGGGCTGTACGTACACTCCTGCTGCCTTACACAGTGCATTTTAG
 AATCTTCCAGTCTGTCTCATCTCAGCTCTTTTGTAAATGCTTCCCTTGTCTGCGCGTTGA
 AACCGTAGGCTTGTTTCATAGTCGCATGCTCGCATCTTTGTTTTTAATCTGGCTTCGAACA
 TAGCACAAGTAACCTGAATAGCACATCAATAGGTTACTGGACAAAAGCAGAAAAACCTGT
 TACAGGATAGCCTGCATTTGCATGTGTGTACATATCTAGGCATCTATTTATGTATAAATA
 ATAACAGAGCCGACGTGTCTCGCCAGGAGGGCTTCCCTGTGAGCAATAACCGGCATCC
 GTTTTGGAACTGCGTCTGGGGCTCCAGTCGCTGCTCTTGCTGGCGTCCATCGCCGCCTC
 GGACGGCCGTGCATTTTCTCGTCTCACGCAGTTCGAGGAGGACCCTAGAAAGCCAGGAGC
 TGTGATTGACAGTAGCTGTAGGTTACCAGACGGCAACATTAGAAAGTGATTGTAAATAAC
 ATGCAACCTAAGTGTAATATATTTGTTTCAGTTATAAGATGATTGTTTACAGAAGCCTTA
 CCACTCTCTGCTTCATCTAAGAAAACCAATACCAAAAACGCCACTTTAATGCTCAGCCCT
 GCGTTGTGTGTTTTTTCAGATGAGTTACTGTAAACAGGTAGGTTTTGTGTAGGCCTTGCTGGG
 CACTCTGTACAATTAGTTGCTTATTACGTATGATTACTCACAGCGATCTATTGTTCCATA
 TAACCAAAAAGCATGGTTTATTTCATTGAAACACGGTTGACCTGAACTCGTGCCTTAGGAA
 TTAATGCCCCCTTATGGAACCTGCCTGAATTGCACCTGCGGGTGGAGGCTCCGGCTGTGA
 AGTCACTGAACAGAACGTGCTGATGGAGAAAGGGCTCCCGCAGAAGGAACGGCCTGTAC
 CGTGCGCTCCGGCACAATCGCGTCTCTTGTGTCTCACTCACGGAAAGAAACAACCTGAAG
 GCCATCCCGTCCGGTCTGCACGTAACCGTGAAGACGTGTGGCCGCGTCCACCTGCGGCTG
 GGTACCCTGCACCCGGCACTGTAGGAGTCAGTGCAGCCTTTCTCAGGGGACTGTATTG
 AAAAGGAAACGTTTGTATGTCTGTGTGAGCTGTCTTTGTAGTTAGGAAATAGATCCAATAA
 AGCCGTATTTTTTGTCTGG

Gene 25. >ENST00000329101 cDNA sequence

GCCGGGAGAACCGAACCCCTGGCGGCCGCGACCCCGGCTCCCGCCCCGGCCCCGGCCCCGA

FIGURE 1 (CONT'D)

CCCGCCATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTTAAC
CAGCGCGACGAGGGCGCCGCGCGGCCCGCCAGAACACTATGGCTATGCATCCTCCAAC
GTCAGCCCCGCGCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAAC
CTTCAGACCTCCACACCGGGCATCATCCCGCCGGCGGATCACCCCTCGGGGTACGGAGCA
GCTTTGGACGGTGGGCCCCGCGGGCTACTTCCTCTCCTCCGGCCACACCAGGCCTGATGGG
GCCCCCTGCCCTGGAGAGTCCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAAC
AATAACCAGTTTTTCCACGATGTGGAGGTGGAAGACGTCTCCTAGCTCCAAACGGTCC
CCCTCCACGGCCACGCTGAGTCTGCCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCTG
AGCCCGGCCAGCAGCCTGTCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCC
AACTACTCGTACCCGTACGCGTCCCCCAGACGTGCGCATGGCAGTCTCCTGCGTGTCT
CCCAAGACCACGGACCCCCGAGGAGGGCTTTCCCGCGGGCTGGGGCCTGCACACTGCTG
GGTTCCCCGCGGCACTCCCCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGG
CTGGGTGCCGCTCCTCCAGACCCGCGTCCCCCTTGCAACAAGAGGAAGTACAGCCTCAAC
GGCCGGCAGCCGCCCTACTACCCCACTCGCCACGCCGTCCCCGCACGGCTCCCCG
CGGGTCAGCGTGACCGACGACTCGTGTTGGGCAACACCACCCAGTACACCAGCTCGGCC
ATCGTGCCCGCCATCAACGCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTC
CCTGTCAAGTCCCGCAAGACCACCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAG
CCCGTCGGGGAGGACCTGGGCAGCCCCCGCCCCGGCCGACTTCGCGCCCGAAGACTAC
TCCTCTTTCCAGCACATCAGGAAGGGCGGCTTCTGCGACCAGTACCTGGCGGTGCCGAG
CACCCCTACAGTGGGCGAAGCCCAAGCCCCCTGTCCCTACGTCTACATGAGCCCGACC
CTGCCCGCCCTGGACTGGCAGCTGCCGTCCCACTCAGGCCCGTATGAGCTTCGGATTGAG
GTGCAGCCCAAGTCCACACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTG
AAGGCGTCGGCCGAGGACACCCCATCGTGAGCTGCATGGCTACTTGGAGAATGAGCCG
CTGATGCTGCAGCTTTTCATTGGGACGGCGGACGACCGCTGCTGCGCCCGCACGCCTTC
TACCAGGTGCACCGCATCACAGGAAGACCGTGTCCACCACAGCCACGAGGCCATCCTC
TCCAACACCAAAGTCTGGAGATCCCCTCCTGCCGGAACAGCATGCGAGCCGTATT
GACTGTGCCGAATCCTGAAACTCAGAACTCCGACATTGAACTTCGAAAGGAGAGACG
GACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCGCGTTTACGTCCCGCAACCC
AGCGGCCGCACGCTGTCCCTGCAGGTGGCCTCCAACCCCATCGAATGCTCCAGCGCTCA
GCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGGCGGG
AAGAAGATGGTCTGTCTGGCCACAACCTTCTGCAGGACTCCAAGGTCATTTTCTGGAG
AAAGCCCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAACCTGACCGGGACCTGTGC
AAGCCGAATTCTCTGGTGGTTGAGATCCCGCCATTTTGGGAATCAGAGGATAACCAGCCCC
GTTACAGTCAGTTTTCTACGTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTC
ACCTACCTTCCCGCCAACGTTTCCAATTATAAAAAACAGAACCCACTGATGATTATGAGCCT
GCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCTCTCCCAAGACCATACTACAGC
CAGCAGCTCGCGATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGT
CCGCAGAGAAGCACCTGATGCCAGCGGCCCCCTGGCGTGAGCCCCAAGCTCCACGACCTT
TCTCCCGCTGCCTACACCAAGGGCGTTGCCAGCCCGGGCCACTGTACCTCGGACTCCCG
CAGCCGGCCGGAGAGGCCCCCCCGCCGTCCAGGACGTGCCAGGCCAGTGGCCACGCACCCC
GGCTCGCCCGGGCAGCCACCCCGGCCCTGCTGCCACAGCAGGTGAGTGCGCCTCCAAGC
AGTAGCTGCCCCCTGGTCTCGAACACTCGCTCTGCCCCAGCAGCCCTCTCCTCCTC
CCGCCTGCCACCCAAGAGCCGACCTGCCTGCAGCCCTGCAGCCAGCGTGCCCGCCCGCC
ACGGGCCGCCCCGAGCACCTGCCGTCCACGGTCCGCAGGGACGAGTCTCCGACTGCCGGG
CCACGGCTGCTGCCAGAGGTGCATGAGGACGGTAGTCTTAATTTGGCCCCCTATTCTGTGA
ACGGTCAAGCGAGAGCCTGAAGAGTTGGACCAGTTGTACCTGGATGACGTAAATGAAATA
ATACGAAATGACCTCTCCAGCACGAGCACCCACTCCTAGTTGCCACATTGGAGCACTCAG
TTCAGCAGGGGTATGCTGACTTCAGCAGACAAAGACTTTTGAATAAATAAACTGAACTCA
CACCTGGTACCACTCAGAACCTCCAACCTGACTGAATGCCAGGAGCTGAACATTAATATGT
GCAAAGATTGGCTCTCCAACAAGAAGGAAAGCAGGGAGGAAGGGAGACCACTGTGTACC
TGGAGGAGAAGTCATCTCATGACAAACAGAAGGGAGGTGGCCGGGCTGAGCACGGGAGACC
CACCGTGCAGGGGCCTTTTCATGGGAACGGCCCAACGCAGTTTGAACCCACGCCCAGCCC
TTCTGGCACCCCTGGGGTTCAATACTGGAAGTGCCTTATTTAACCAGACCATCAGGGCAT
CATAGAATTGAGCATTGAATTTGCTACTGTAGGAGTATTTTAGGAGCAGAACTGCAAA

FIGURE 1 (CONT'D)

CACATTTTCATTGTGAGGTTTTACCCTCTGTATGAATGAAGAGAACGCTGGAAGGCTGCGA
GAGGACTCTAGTATGAGTCTCCAACATTTGGAACGTTTCTGGGCTGTACGTACACTCC
TGCTGCCTTACACAGTGCATTTTGAATCTTCCAGTCTGTCTCAGCTCTTTTGTAAC
ATGCTTCCCTTGTCTGCGCGGTTGAAACCGTAGGCTTGTTCATAGTCGCATGCTCGCATC
TTTGTTTTTAATCTGGCTTCGAACATAGCACAAGTAACTTGAATAGCACATCAATAGGTT
ACTGGACAAAAGCAGAAAAACCTGTTACAGGATAGCCTGCATTTGCATGTGTGTACATAT
CTAGGCATCTATTTATGTATAAATAATAACAGAGCCGACGTGTCCTCGCCAGGAGGGCT
TCCCTGTGAGCAATAACCGGCATCCGTTTTGGAACCTGCGTCTGGGGCTCCAGTCGCTGC
TCTTGCTGGCGTCCATCGCCGCCTCGGACGGCCGTGCATTTTCTCGTCTCACGCAGTTG
AGGAGGACCCTAGAAAGCCAGGAGCTGTGATTGACAGTAGCTGTAGGTTACCAGACGGCA
ACATTAGAAAGTGATTGTAAATAACATGCAACCTAAGTGTAATATATTTGTTTCAATTATA
AGATGATTGTTTTACAGAAGCCTTACCACTCTCTGCTTCATCTAAGAAAACCAATACCAA
AAACGCCACTTTAATGCTCAGCCCTGCGTTGTGTGTTTTTCAAGATGAGTTACTGTTAACAG
GTAGGTTTTGTGTAGGCCTTGCTGGGCACTCTGTACAATTAGTTGCTTATTACGTATGATT
ACTCACAGCGATCTATTGTTCCATATAACCAAAAAGCATGTTTTATTCAATTGAAACACGG
TTGACCTGAACTCGTGCCTTAGGAATTAATGCCCCCTTATGGAACCTGCCTGAATTGCAC
CTGCGGGTGGAGGCTCCGGCTGTGAAGTCACTGAACAGAACGTCGCTGATGGAGAAAGGG
CTCCCGCAGAAGGAACGGCCTGTACCGTGCCTCCGGCACAATCGCGTCTCTTGTGTCTC
ACTCACGGAAGAAACAACCTGAAGGCCATCCCGTCCGTCTGCACGTAACCGTGAAGACG
TGTGGCCGCGTCCACCTGCGGCTGGGTACCTGCACCCGGCACTGTAGGAGTCACGTGC
AGCCTTTCTCAGGGGACTGTCAATTGAAAAGGAAACGTTTGATGTCTGTGTGAGCTGTCTT
TGTAAGTTAGGAAATAGATCCAATAAAGCCGTATTTTTTTTGCTGG

Gene 26. >ENST00000314741 cDNA sequence

ATGAACCGAAGTTTTCAAGTCTCAGACCTTGCGATTCTACGATTGCAGCGCAGTGGAA
GTCAAGAGCAAGTTTGGGGCGGAATTCCGAAGTTTCTCTGACCGTCATAAGCCTGGG
AAGTTTGAAGATTTCTACAAGCTGGTTGTGCACACCCACCATATCTCCAACAGTGATGTA
ACTATTGGCTATGCAGATGTGCACGGAGACCTGCTGCCCATCAACAATGATGACAACTTC
TGCAAGGCGGTTTTCTAGTGCAAATCCCTGCTCAGGGTCTTCATCCAGAAACGAGAGGAG
GCCGAGCGTGGCAGCCTCGGCGCGGGCTCGCTGTGCAGGCGGAGGCGGGCGCTGGGCGCG
CTGCGTGATGAAGGACCCCGGCGGCGTGACACCTGGACATCGGCCTCCCGCGCGACTTC
CGCCCCGTATCATCCATCATCGATGTGGACCTGGTCCCCGAGACGCACCGGCGAGTGGCG
CTGCACCGGCACGGCTGCGAGAAGCCGCTGGGCTTCTACATCCGCGATGGCGCCAGCGTG
CGCGTGACCCCGCACGGGCTGGAGAAGGTGCCCCGGCATCTTCATCTCGCGCATGGTACCC
GGGGGCTGGCGGAGAGCACCGGGCTGCTGGCTGTGAATGACGAGGTCTGGAGGTGAAC
GGCATTGAGGTGGCCGGGAAGACGCTGGACCAAGTCAAGGACATGATGATCGCCAACAGC
CACAACCTCATCGTCAACGTCAGCCCGCAACAGCGCAACAACGTGGTGCAGCGGCGGC
CGCGCGTTGGGCGAGCTCGGGACCGCCCTCGGACGGCACCGCGGGCTTCGTGGGTCCCCC
GCCCCGCGCGTCTGACAGAACTTCCACCCCGACGAGGCGGAGAGCGATGAGGACAACGAC
GTCGTCTCGAGGGCACACTGGAGCCTGCACGTCCCCCCCCAGACCCCGGGCGCGCCGCA
GGCAGCCTCTCCCGGTCAATGGCGCGGGCCTGGCGCAGCGGCTGCAGCGGGACCTGGCC
CTGGACGGCGGCCTCCAGCGGCTGCTCAGCTCCCTGCGGGCCGACCCCGTCAAGCCTG
GCGCTGCCGCCAGGCGGCGTGGAGGAGCACGGGCCCGCGGTACAGCTCTAG

Gene 27. >ENST00000306722 cDNA sequence

GCGCTCGGCGCAGCGAAGTAGCCTCCGGCGGTGGCAACTACGGCGGCGGCGCGGGGCGA
TGCTGTGGGTCTCGTTGGGCGCCGGTGTCTGGCCTCTTCTTAGATGAAAAGATTCTGA
AGAATAGAGATCTTGAACATAGCATGGTGCCAGACACATAACAGAACGAAGAACAACCTA
AATTCATCTCAAAATGATTATAAATCATCAAGAAGGAGTAGCCTGCCACCTGAACTACTC
ATAGGAAATGACATTAGAGGAAGACTTCAAAGAAACATTAAGAACTTGGATCCCATTAC
CTGAGGCACCCGAAGAAGAGACCATCCATATTTCCAGGACGGAAACACACCCTTTCTTA
GGCGTCTGCGTCCCCGATTCTGCTCCCTGGTTGCCGCGTCTTGGCTGGCGTCAGAA
AAATGGCTACAACTTTCTAGTAGGTGAGAAGATCTGGTTCCACAAGTTCAAATATGGCG
ATGCAGAAAGGAGATTCTACGAACAGATGAACGGGCCTGTGGCCGGCGCCTCCCTCCAGG
AGGCCAGCATGATCCTCCATGATATTGCCAGAGCCAGAGAGAACATCCCGAAATCCCTGG
CCGGAAGCTTAGGCCAGGGGCGTCTAGCGGCCCGAGCGGAGACCACAGCGAGCTCGTCG

FIGURE 1 (CONT'D)

TCCGGATCGCCAGTCTGGAAGTGGACAACCAGAGAGACCTGCTGAACGTGCTGGAGAAGA
GCTTGCCCGGCCACTGGGCCACAGCCCCGAGACCCAGCACATGTCTCCCATGCGCCAAG
TGGAGCCCCCGGCCAAGAAGCTAGCCACACCAGCAGAGGATGACGAGGACGATGACATTG
ACCTGTTTTGGCAGCGACAATGAGCAACACAGCTGCGGCATTACCAATGAGGAGCGGCTGC
AGCAGTACGCGGAGAAGAAGGCCAAGAAGCCCCGCGCTGGTGGCCAAGTCTCCATCCTGC
TGGACTTCAAGCCTTGGGACGATGAGACGGACACGGCCACCTGGAGGCCCTGTGTGCGCT
TCATCCAGCCGGACGGGCTGGTGCAGGGGGCCCTCCAAGCTGGTGCCTGGGCTACGGTA
TCTGGAAGCTGCAGATTGAGCGTGTGGTGGAGGACAAGGTGGGGACAGACTTGCTGGAGG
AGGAGATCACCAAGTTTGAAGAGTGTATGCAGAGTGTGACATCGCAGCTTTCAACAAGA
TCTGGCCTGAGTGTGTGTGTGTGCGCGCTGCATGAGGCCCTGACACAATTAAAACTGA
GACCGGCAAAAAAAAAAAAAAAAAAAGGGACGAAAACAAACCTTAATGAAGCT

Gene 28. >ENST00000241471 cDNA sequence

GCAGAGAACAAAGATTGGTGGCTTCTCCTGAGCACACTGGGATGTGGCATTACATCGGG
GCTGCTGAGTGCCCTTACCTTCAGCTGCCCAGATGCAGAGGCAGTTCCACAAGGTACTGG
CACAAGAAGAGTCGTGGAAGACTGACCTGGCCATGGCTTCTCATGTCCAGCTCAGGACC
TGCCACATCAATTCTCCCTTTCTCTGGCCGTACGTGTGGAGTGAAATTCTCAGAAGCG
GCTGTCCCTGTGCACCTCTCTGGCTGTGTCCAGAAATGAACATCTGTTTACAGCTTCAA
TTTTCTAATGATTAG

Gene 29. >ENST00000241470 cDNA sequence

CGCGAGTTGAGCCGTTTTCCCGCGCTGTCCGCGCGGGCGCTCCGACAGCGGCTCTGCAGG
GTCCGCGGCCAGCGTCCGGCCACCGCTCGGCCGCCACTCAAGGCTCACGCGTCGATGTGT
AGCTACATAGTTATCTGTGTACATCCACGCTGGGGCATTCTCTCTGCTTAATGAGGAC
TTGACTCGGGAGCAAGTGTGAATCATTGCCGGGGCTGGGAAAGGAGGAAGGCGCATTTAA
CCCCCTCCACCCCTCTCCATGTCCGTGTGTCACTCGGCTCGGTCCACCTGGCGCGGCCG
GTCCTGGGGCTGCTGCTGCTGTTGACGACGACGACGACGACGAGGGGGCTGCCTCTGCTGTC
CCGGGAGTTTTCTCCTGCTCCGGCCACACAGCTCCTGGGGATTGTTCTCTTCGAACCAG
AACCTCGGCCTGACCGGCACCTTTGGCTCCAAAATAACTTTATTTTTGGGGGAGAAAGCAC
ATCACGAACCAGTCAAAATCGTGGTTTATTTCTGTAACTGAAGACTTCTGCTCTTTTTT
CTTTGTTTGTTTTTTTCGTAAACATCTGGGTGTATATCAAACGGCAAGATGTCCAGTAAT
GTCCCGGCGGATATGGATAAATTTGCGCCTCATTTTGGTAAGCGGAAAAACAAAAGAGTT
CCTGTTTTCTCCTAACGATTCTGCTTCTGACATTGCAAAGCATGTATATGACAATTGGCC
AATGGGACTGGGAAGAAGAGCAGGTGAGCAGTCCAAATATTCTACGACTTATTTATCAAG
GACGATTTCTACATGGAAATGTACATTAGGAGGCATTAACAACTTCTTTTTGGCAAAACA
ACAGTGATGCATTTGGTGGCCAGAGAGACATTACAGAGCCAACTCTCAAGGGTCAGAG
GAATCGTGAGAAGACTGGAGAGAGTAATTGTTGTGTAATCCTGTAAACACTGTCTGCCTA
GTGTGATGTGATATAGTCTTTGTCTTTCATGCTGCTGGGACAGAAAAGACCCGACATTGC
TTCAGAAACCGTTTCAGAACAGTCTGCCTGTAAACACATGGAACCTGAATTACCACATGAAC
ACTGTCACTTTTTCTCATGAAAGTAAAAAGAACCAAGAACATTTTTCACTCTGATTTTTT
ATTTCTTGATTTTTTGTGAGCTGTTTTAACACATATTGGTTTTTGAATGCAGTCAATC
TCCAGGGGAAAAGTTAAACAAGTTATCTTTCGTAGCAGAAACCATTTTGCTGCCACAAAT
TTTCATCATCAGAACTAATAAATCAAGTGTTCCAAATACAATTTGCATTAAAAAGATTGG
CATTATTTTCTCATCAGCAGAATTTATAACAGTGTGTGGTATCTAGAAATACTTATATA
TACAATTCACACTGGAAGACACTCAGCAATTAATGAAGTTAATTAAGGGCCAACTTGA
GAGGAAAAATGGAAAAGAACTAAAATGTTGGGTGAATTCTACCAAAGTCAGCCGTGGT
GGCTGCACTGGCACAGAATACTAACTGAGTGTGACTATTTTCACTGCAACAAATGAAAA
AACAAAATGTGCCTGTTTAAAGCACTCAGTAGAGGGCTGATGAACTAATTTTTTTTCT
TTAAGACATGCACTCTTGAGTCTACAGTAACTGAGTGTGTTGTTTAGACAGCACAGAAG
GGGTGAGAGTGCGTCTCCTAGCCTTAATGTGGGAGGGTAGTTTCAGTCACTCATCGGCTT
TCATTATTGTGCAGAAATATTAGAAAACCTCATTGATCAATTTTATGTATTTGAATATCA
GCAAATTGAAATTTCCATAATTATCATTAATTTGTAACCACATCCAGTGTGATGCTTAC
TCCTTAGAGTTTCAGATGAATTTTAAAAATTAATAAAAAAACTCCATAGTACTAATTTTGT
TCTTTATATAGTTTGCCTTTGATATTAGTGCTTGCAATTGTATTAAAGTCAAAGCTGAT
TTTTATGGCATACACAAGAATGCCACTTTTTCTTTTATTTTATACCAATAATTTAAAGAT
TGATATGCTAAAAACAATTTGCACAGCACTAAAGCATGAGCTACTTTTCATCTAAACCTGT

FIGURE 1 (CONT'D)

AAAAATATGAAAGATTTTTATATTTTTTCACTGGGAAGAAATTCCTCCTGGATGAAATTA
CAAATATGTGTAGAATATATTTAATAAAAGACTTATAAAATACCTAACTACAGGACTTAA
AATATAGATTGGCGCGTAGTATACAGAACAAATATTCCATATAAATAAGTTTAGCCTTTAT
AAAAATGAAGTTGCAGGCTGACATTACATTCTGTACTAAGTGTCAACAGCCCTTACAAAC
ATTAAATGTAAATGGTTTTCAAATGGTCAGCGTTGTTTAAATGTAATCATGTTATTTTATT
CATTGTTAATGCTTTGATGAAAAGGCTTTATATGCAGTAGATCTACGAAAATATTGTTCA
TACTGATCAGAATTAAATTTGTATAGAGCAGAGTTTTAAATGAATGTAAATAGCACTAA
ACGTTTTCTTTCTGCAACCTGTACTTACAGATTCTTCCTGTAAACTAAATAAAAAAAAAA
TGATAGTGCATTTTGGTGGTAATTTTAAAGGCTTGATTAGGTCAATAATTGTTTAAGCA
CCGCTCTCATTGTTTCTACTTTTCAATTTCTTAAGCTTTTAAATTCATTTAATTAATA
TTCTGTTGTTGTTTTGGGGAGTATTCCCAATGTATCTTTGATATTTAACCTGGTTAATTT
GTGGACAGTCACAACAATGGATAGAATTATGTAGTCTCCGTTATCACTAAATGTTATCT
TCAAGAGATGTTAAATATTTATATGCTTTGTTGACTAGCTGAAATGTGAATTCTGTTAGT
GTTGACTAAAGAATCTGGTAGTTGCTTAATTGGGCAATTAAACAATTTATGGCTCTATTT
TGTAACAACAACTACTGGTAATTATTTTTAATACCTATTTTCATTCTGATTACTCTTTTT
TTAAGTTAAAGACTATCAGTTAATTAAGATTGAGTTTTTATGATGGTTAAAAATAATTCT
CTATTGGTTTTTCAATATATTTTTCTGTGTGTTCTCAGATTATATATTTCCCTCAATTTA
GAGTTTGCTAAGTGAAATAAACTGGTTCAGTAGAGAGAAAGATTACGTCGCTTAATAC
CTAATATCATAGTTGTACAATATGAAAAAAGAATAAAAAGTAGCAGTAAATATATATA
CTGAAAACACCAAAATTTAGATGCCTTAATAGTATATACGTGAAATACTCAGCTGTCCC
TTTAAAAATAATTCCTTGGACTGCCTGGTGGTTAAAAATACGATTCTCATATCCAAGGCT
ACTTTTGAAGATCCCTCTGCCAAAAATATAGCTCACTTATCTAAAGGTGAGAGCTGCATA
GATCCAGTAATGTACATAAAGCCTGAATGATGAGCCTATGTCCCTGCCTAACGCTGGTGT
CTCACTCATCTCTTTTACCTAAATTGTCCTGAACTTTGTTAAGTGTTCTGGACAAGGCCA
AGCTTTTCTTTATTAAACCTCAGCATGTCTCCCTGATCTGAACTATTTGCTTTCTCTTC
AAGATAAGTTGTATTTTACCATGGAAAAATACAGTATCTAACATTACCATTACGTTAAA
TGAAGTTTCTCATAACATTTATCTTTAGTTTTATGAAGTCATCGTGACCAATGTTACAG
TAATTTCTGTTAGCTGATTGTGGTAAACAATGTTTAAATGTGAAAAGAAATTAAAACTTTC
TTCATCTGTTGT

Gene 30. >ENST00000301980 cDNA sequence

ATGTCGCAGCCGCGCTGCTCCCCGCCTCGGCGGAGACTCGGAAGTTCAACCGGGCGCTG
AGTAAGCCGGGCACGGCGGCGGAGCTGCGGCAGAGCGTGTCTGAGGTGGTGCGCGGCTCC
GTGCTCCTGGCAAAGCCAAAGCTAATTGAGCCACTCGACTATGAAAATGTCATCGTCCAG
AAGAAGACTCAGATCCTGAACGACTGTTTACGGGAGATGCTGCTCTTCCCTTACGATGAC
TTTCAGACGGCCATCCTGAGACGACAGGGTCGATACATATGCTCAACAGTGCCTGCGAAG
GCGGAAGAGGAAGCACAGAGCTTGTGTTTACAGAGTGCATCAAAACCTATAACTCTGAC
TGGCATCTTGTGAACTATAAATATGAAGATTACTCAGGAGAGTTTCGACAGCTTCCGAAC
AAAGTGGTCAAGTTGGATAAACTTCCAGTTCATGTCTATGAAGTTGACGAGGAGGTGAC
AAAGATGAGGATGCTGCCTCCCTTGGTTCCAGAAAGGTGGGATCACCAAGCATGGCTGG
CTGTACAAAGGCAACATGAACAGTGCCATCAGCGTGACCATGAGGTCATTTAAGAGACGA
TTTTTCCACCTGATTCAACTTGGCGATGGATCCTATAATTTGAATTTTTATAAAGATGAA
AAGATCTCAAAGAACCAAAGGATCAATATTTCTGGATTCTGTATGGGTGTCGTTTCTC
AACAAACAAAGTCAGGCGTTTTGCTTTTGTGAGCTCAAGATGCAGGACAAAAGTAGTTATCTC
TTGGCAGCAGACAGTGAAGTGGAAATGGAAGAATGGATCACAATTCTAAATAAGATCCTC
CAGCTCAACTTTGAAGCTGCAATGCAAGAAAAGCGAAATGGCGACTCTCACGAAGATGAT
GAACAAAGCAAATTGGAAGGTTCTGGTTCCGGTTTAGATAGCTACCTGCCGGAACCTTGCC
AAGAGTGCAAGAGAAGCAGAAATCAAAGTGAAGAGCAGAGTCAAACTTTTTTTAT
TTGGACCCAGATGCCCAGAAGCTTGACTTCTCATCAGCTGAGCCAGAAGTGAAGTCATTT
GAAGAGAAGTTTGGAAAAAGGATCCTTGTCAAGTGAATGATTTATCTTTCAATTTGCAA
TGCTGTGTTGCCGAAAATGAAGAAGGACCCACTACAAATGTTGAACCTTTCTTTGTTACT
CTATCCCTGTTTGACATAAAATACAACCGGAAGATTTCTGCCGATTTCCACGTAGACCTG
AACCATTTCTCAGTGAGGCAAATGCTCGCCACCACGTCCCCGGCGCTGATGAATGGCAGT
GGGCAGAGCCCATCTGTCCTCAAGGGCATCCTTCATGAAGCCGCCATGCAGTATCCGAAG
CAGGGAATATTTTCACTGCTTGTCTCATCCAGATATATTTCTTGTGGCCAGAATTGAA

FIGURE 1 (CONT'D)

AAAGTCCTTCAGGGGAGCATCACACATTGCGCTGAGCCATATATGAAAAGTTCAGACTCT
TCTAAGGTGGCCAGAAAGGTGCTGAAGAATGCCAAGCAGGCATGCCAAAGACTAGGACAG
TATAGAATGCCATTTGCTTGGGCAGCAAGGACATTGTTTAAGGATGCATCTGGAAATCTT
GACAAAAATGCCAGATTTTCTGCCATCTACAGGCAAGACAGCAATAAGCTATCCAATGAT
GACATGCTCAAGTTACTTGCAGACTTTTCGGAAACCTGAGAAGATGGCTAAGCTCCCAGTG
ATTTTAGGCAATCTAGACATTACAATTGATAATGTTTCCTCAGACTTCCCTAATTATGTT
AATTCATCATACATTCCCACAAAACAATTTGAAACCTGCAGTAAAACTCCCATCACGTTT
GAAGTGGAGGAATTTGTGCCCTGCATACAAAACACACTCAGCCTTACACCATCTACACC
AATCACCTTTACGTTTATCCTAAGTACTTGAATACGACAGTCAGAAGTCTTTTGCCAAG
GCTAGAAATATTGCGATTTGCATTGAATTCAAAGATTGAGATGAGGAAGACTCTCAGCCC
CTTAAGTGCATTTATGGCAGACCTGGTGGGCCAGTTTTTCAAGAAGCGCCTTTGCTGCA
GTTTTACACCATCACAAAACCCAGAATTTTATGATGAGATTAAATAGAGTTGCCCACT
CAGCTGCATGAAAAGCACCACCTGTTGCTCACATTCTTCCATGTGAGCTGTGACAACTCA
AGTAAAGGAAGCACGAAGAAGAGGGATGTCGTTGAAACCAAGTTGGCTACTCCTGGCTT
CCCCTCCTGAAAGACGGAAGGGTGGTGACAAGCGAGCAGCACATCCCGGTCTCGGCGAAC
CTTCCTTCGGGCTATCTTGGCTACCAGGAGCTTGGGATGGGCAGGCATTATGGTCCGGAA
ATTAAATGGGTAGATGGAGGCAAGCCACTGCTGAAAATTTCCACTCATCTGGTTTCTACA
GTGTATACTCAGGATCAGCATTTACATAATTTTTTCCAGTACTGTGAGAAAACCGAATCT
GGAGCCCAAGCCTTAGGAAACGAACCTTGTAAGTACCTTAAGAGTCTGCATGCGATGGAA
GGCCACGTGATGATCGCCTTCTTGCCCACTATCCTAAACCAGCTGTTCCGAGTCCTCACC
AGAGCCACACAGGAAGAAGTCGCGGTTAACGTGACTCGGGTCATTATTGATGTGGTTGCC
CAGTGCCATGAGGAAGGATTGGAGAGCCACTTGAGGTCATATGTTAAGTACGCGTATAAG
GCTGAGCCATATGTTGCCTCTGAATACAAGACAGTGCATGAAGAACTGACCAAATCCATG
ACCACGATTCTCAAGCCTTCTGCCGATTTCTCACCAGCAACAACTACTGAAGTACTCA
TGGTTTTTCTTTGATGTACTGATCAAATCTATGGCTCAGCATTTGATAGAGAACTCCAAA
GTTAAGTTGCTGCGAAACCAGAGATTTCTGTCATCCTATCATCATGCAGTGGAAACCGTT
GTAAATATGCTGATGCCACACATCACTCAGAAGTTTCGAGATAATCCAGAGGCATCTAAG
AACGCGAATCATAGCCTTGCTGTCTTCATCAAGAGATGTTTCACCTTCATGGACAGGGGC
TTTGTCTTCAAGCAGATCAACAACTACATTAGCTGTTTTGCTCCTGGAGACCCAAAGACC
CTCTTTGAATACAAGTTTGAATTTCTCCGTGTAGTGTGCAACCATGAACATTATATTCCG
TTGAACCTTACCAATGCCATTTGGAAAAGGCAGGATTCAGAGATACCAAGACCTCCAGCTT
GACTACTCATTAACAGATGAGTTCTGCAGAAACCACTTCTTGGTGGGACTGTTACTGAGG
GAGGTGGGGACAGCCCTCCAGGAGTTCGGGAGGTCCGTCTGATCGCCATCAGTGTGCTC
AAGAACCTGCTGATAAAGCATTCTTTTGATGACAGATATGCTTCAAGGAGCCATCAGGCA
AGGATAGCCACCCTCTACCTGCCTCTGTTTGGTCTGCTGATTGAAAACGTCCAGCGGATC
AATGTGAGGGATGTGTCAACCTTCCCTGTGAACGCGGGCATGACTGTGAAGGATGAATCC
CTGGCTCTACCAGCTGTGAATCCGCTGGTGACGCCGAGAAGGAAGCACCTGGACAAC
AGCCTGCACAAGGACCTGCTGGGCGCCATCTCCGGCATTGCTTCTCCATATACAACCTCA
ACTCCAAACATCAACAGTGTGAGAAATGCTGATTGAGAGGATCTCTCATAAGCACAGAT
TCGGGTAAACAGCCTTCCAGAAAGGAATAGTGAGAAGAGCAATTCCTGGATAAGCACCAA
CAAAGTAGCACATTTGGGAAATTCGGTGGTTGCTGTGATAAACTTGACCAGTCTGAGATT
AAGAGCCTACTGATGTGTTTCTCTACATCTTAAAGAGCATGTCTGATGATGCTTTGTTT
ACATATTGGAACAAGGCTTCAACATCTGAACTTATGGATTTTTTTACAATATCTGAAGTC
TGCCTGCACAGTTCAGTACATGGGGAAGCGATACATAGCCAGAACAGGAATGATGCAT
GCCAGATTGCAGCAGCTGGGCAGCCTGGATAACTCTCTCACTTTTAAACCACAGCTATGGC
CACTCGGACGCAGATGTTCTGCACCAAGTCACTTGAAGCCAACATTGCTACTGAGGTT
TGCCTGACAGCTCTGGACACGCTTTCTCTATTTACATTGGCGTTTAAAGAACCAGCTCCTG
GCCGACCATGGACATAATCCTCTCATGAAAAAAGTTTTTGGATGTCTACCTGTGTTTTCTT
CAAAAACATCAGTCTGAAACGGCTTTAAAAAATGTCTTCACTGCCTTAAGGTCTTAATT
TATAAGTTTCCCTCAACATTTCTATGAAGGGAGAGCGGACATGTGTGCGGCTCTGTGTTAC
GAGATTCTCAAGTGCTGTAACCTCCAAGCTGAGCTCCATCAGGACGGAGGCCTCCAGCTG
CTCTACTTCTGATGAGGAACAACCTTTGATTACACTGGAAAGAAGTCTTTGTCCGGACA
CATTTGCAAGTCATCATATCTGTGAGCCAGCTGATAGCAGACGTTGTTGGCATTGGGGGA
ACCAGATTCCAGCAGTCCCTGTCCATCATCAACAACTGTGCCAACAGTGACCGGCTTATT

FIGURE 1 (CONT'D)

AAGCACACCAGCTTCTCCTCTGATGTGAAGGACTTAACCAAAGGATACGCACGGTGCTA
ATGGCCACCGCCAGATGAAGGAGCATGAGAACGACCCAGAGATGCTGGTGGACCTCCAG
TACAGCCTGGCCAAATCCTATGCCAGCAGCCCGAGCTCAGGAAGACGTGGCTCGACAGC
ATGGCCAGGATCCATGTCAAAAATGGCGATCTCTCAGAGGCAGCAATGTGCTATGTCCAC
GTAACAGCCCTAGTGGCAGAATATCTCACACGGAAAGAAGCAGTCCAGTGGGAGCCGCCC
CTTCTCCCCACAGCCATAGCGCCTGCCTGAGGAGGAGCCGGGAGGCGTGTTTAGACAA
GGATGCACCGCCTTCAGGGTCATTACCCCAAACATCGACGAGGAGGCCTCCATGATGGAA
GACGTGGGGATGCAGGATGTCCATTTCAACGAGGATGTGCTGATGGAGCTCCTTGAGCAG
TGCGCAGATGGACTCTGGAAAGCCGAGCGCTACGAGCTCATCGCCGACATCTACAACTT
ATCATCCCCATTTATGAGAAGCGGAGGGATTTTGAGAGGCTGGCCCATCTGTATGACACG
CTGCACCGGGCCTACAGCAAAGTGACCGAGGTGATGCACTCGGGCCGAGGCTTCTGGGG
ACCTACTTCCGGGTAGCCTTCTTCGGGCAGCAATACCAGTTTACAGACAGTGAAACAGAT
GTGGAGGGATTCTTTGAAGATGAAGATGGAAAGGAGTATATTTACAAGGAACCCAACTC
ACACCGCTGTGCGAAATTTCTCAGAGACTCCTTAAACTGTACTCGGATAAATTTGGTTCT
GAAAATGTCAAATGATACAGGATTCTGGCAAGGTCAACCCTAAGGATCTGGATTCTAAG
TATGCATACATCCAGGTGACTCACGTATCCCCCTTCTTTGACGAAAAGAGTTGCAAGAA
AGGAAAACAGAGTTTGAGAGATCCCAACATCCGCCGCTTCATGTTTGAGATGCCATTT
ACGCAGACCGGGAAGAGGCAGGGCGGGGTGGAAGAGCAGTGCAAACGGCGCACCATCCTG
ACAGCCATACACTGCTTCCCTTATGTGAAGAAGCGCATCCCTGTATGTACCAGACCAC
ACTGACCTGAACCCCATCGAGGTGGCCATTGACGAGATGAGTAAGAAGGTGGCGGAGCTC
CGGCAGCTGTGCTCCTCGGCCGAGGTGGACATGATCAAACGAGCTCAAACCTCAGGGC
AGCGTGAGTGTTTCAAGTCAATGCTGGCCCACTAGCATATGCGCGAGCTTTCTTAGATGAT
ACAAACACAAAGCGATATCCTGACAATAAAGTGAAGCTGCTTAAGGAAGTTTTTCAAGCAA
TTTGTGGAAGCTTGCGGTCAAGCCTTAGCGGTAAACGAACGTCTGATTAAAGAAGACCAG
CTCGAGTATCAGGAAGAAATGAAAGCCAACTACAGGGAAATGGCGAAGGAGCTTTCTGAA
ATCATGCATGAGCAGGTGAGAAGATCTGCCCCCTGGAGGAGAAGACGAGCGTCTTACCGA
ATTCCCTTTCACATCTTCAACGCCATCAGTGGGACTCCAACAAGCACAATGGTTTACGGGA
TGACCAGCTCGTCTTTCGGTCTGTGATTACATCTCATGGCCCGTGTGTGGGGACTTGCTT
TGTCATTTTGCAAACCTCAGGATGCTTTCCAAAGCCAATCACTGGGGAGACCGAGCACAGGG
AGGACCAAGGGGAAGGGGAGAGAAAGGAAATAAAGAACAAACGTTATTTCTTAACAGACTT
TCTATAGGAGTTGTAAGAAGGTGCACATATTTTTTTAAATCTCACTGGCAATATTCAAAG
TTTTTCATTGTGTCTTAACAAAGGTGTGGTAGACACTCTTGAGCTGGACTTAGATTTTTATT
CTTCCTTGAGAGTAGTGTTAGAATAGATGGCCTACAGAAAAAAGGTTCTGGGATCTA
CATGGCAGGGAGGGCTGCACTGACATTGATGCCTGGGGGACCTTTTGCCTCGAGGCTGAG
CTGGAATAATCTTGAAAATATTTTTTTTTTCTGTGGCACATTTCAGGTTGAATACAAGAAC
TATTTTTGTGACTAGTTTTTGTATGACCTAAGGGAACTGACCATTGTAATTTTTGTACCAG
TGAACCAGGAGATTTAGTGCTTTTATATTTCATTTCTTGCATTTAAGAAAATATGAAAGC
TTAAGGAATTATGTGAGCTTAAACTAGTCAAGCAGTTTAGAACCAAAGGCCTATATTAA
TAACCGCAACTATGCTGAAAAGTACAAAGTAGTACAGTATATTGTTATGTACATATCATT
GTTAATACAGTCTTGGCATTCTGTACATATATGTATTACATTTCTACATTTTTAATACTC
ACATGGGCTTATGCATTAAGTTAATTGTGATAAATTTGTGCTGTTCCAGTATATGCAAT
ACACTTTAATGTTTTATTCTTGTACATAAAAAATGTGCAATATGGAGATGTATACAGTCTT
TACTATATTAGGTTTATAAACAGTTTTAAGAATTTTATCCTTTTGCCAAAATGGTGGAGT
ATGTAATTGGTAAATCATAAATCCTGTGGTGAATGGTGGTGTACTTTAAAGCTGTACCA
TGTTATATTTTTCTTTTAAAGACTTTAATTTAGTAATTTTATATTTGGGAAAATAAAGGTTT
TTAATTTTATTTAACTGGAATCACTGCCCTGCTGTAATTAAACATTCTGTACCACATCTG
TATTAATAAGACATTGCTGACC

Gene 31. >ENST00000218552 cDNA sequence

CAGTCACCGGTAAGTTACTGAATCTGCGTTGGCTGCCTTTTCATGCCACTGGTGCTCCTTT
GTGGCTATGGACAGTGGGGGTGATTTCAATCCTGTGCTTGTTTTCTTTTTTGTGAGAG
TTTCTTTGGTTATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGTTTTGCGAAAGATT
TTCCTACTATGGAATGCGAGCAATCCTGATTCTGTACTTCACAAATTTTCATCAGCTGGGA
TGATAACCTGTCCACCGCCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAAT
TCTCGGAGCTCTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTGCTCTC

FIGURE 1 (CONT'D)

CATTGTCTACACAATTGGACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGA
CCACAACCATGATGGCACCCCCGACAGCCTTCCTGTGCACGTGGTGCTGTCTTGATCGG
CCTGGCCCTGATAGCTCTCGGGACTGGAGGAATCAAACCCTGTGTGTCTGCGTTTGGTGG
AGATCAGTTTGAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTTCATCTTTTACTT
GGCTATTAATGCTGGAAGTTTGCTTTCCACAATCATCACACCCATGCTCAGAGTTCAACA
ATGTGGAATTCACAGTAAACAAGCTTGTTACCCACTGGCCTTTGGGGTTCTGTCTGTCT
CATGGCTGTAGCCCTGATTGTGTTTGTCTTGGCAGTGGGATGTACAAGAAGTTCAAGCC
ACAGGGCAACATCATGGGTAAAGTGGCCAAGTGCATCGGTTTTGCCATCAAAAATAGATT
TAGGCATCGGAGTAAGGCATTTCCCAAGAGGGAGCACTGGCTGGACTGGGCTAAAGAGAA
ATACGATGAGCGGCTCATCTCCCAAATTAAGATGGTTACGAGGGTGATGTTCTGTATAT
TCCACTCCCAATGTTCTGGGCCTTGTTTGACCAGCAGGGCTCCAGGTGGACACTGCAGGC
AACAACTATGTCCGGGAAAATCGGAGCTCTTGAAATTCAGCCCGATCAGATGCAGACCGT
GAACGCCATCCTGATCGTGATCATGGTCCCGATCTTCGATGCTGTGCTGTACCCTCTCAT
TGCAAAATGTGGCTTCAATTTACCTCCTTGAAGAAGATGGCAGTTGGCATGGTCTGGC
CTCCATGGCCTTTGTGGTGGCTGCCATCGTGCAGGTGGAAATCGATAAAACTCTTCCAGT
CTTCCCCAAAGGAAACGAAGTCCAAATTAAGTTTTGAATATAGGAAACAATACCATGAA
TATATCTCTTCTGGAGAGATGGTGACACTTGGCCCAATGTCTCAAACAAATGCATTTAT
GACTTTTGATGTAAACAACTGACAAGGATAAACATTTCTTCTCTGGATCACCAGTCAC
TGCTGTAAGTACGACTTCAAGCAGGGCCAACGCCACACGCTTCTAGTGTGGGCCCCAA
TCACTACCAGGTGGTAAAGGATGGTCTTAACCAGAAGCCAGAAAAAGGGGAAAATGGAAT
CAGATTTGTAAATACTTTTAACGAGCTCATCACCATCACAATGAGTGGGAAAGTTTATGC
AAACATCAGCAGCTACAATGCCAGCACATACCAGTTTTTTCTTCTGGCATAAAAGGCTT
CACAATAAGCTCAACAGAGATTCCGCCACAATGTCAACCTAATTTCAATACTTTCTACCT
TGAATTTGGTAGTGCTTATACCTATATAGTCCAAAGGAAGAATGACAGCTGCCCTGAAGT
GAAGGTGTTTGAAGATATTTTCAAGCAACACAGTTAATCATGGCTCTGCAATCCCGCAGTA
TTTTCTTCTCACCTGTGGCGAAGTGGTCTTCTCTGTACGGGATTGGAATTCTCATATTC
TCAGGCTCCTTCCAACATGAAGTCGGTGCTTCAAGCAGGATGGCTGCTGACCGTGGCTGT
TGGCAACATCATTGTGCTCATCGTGGCAGGGGAGGCCAGTTCAAGCAACAGTGGGCCGA
GTACATTCTATTTGCCGCGTTGCTTCTGGTCTGTGTAAATTTTGGCATCATGGCTCG
GTTCTATACTTACATCAACCCAGCGGAGATCGAAGCTCAATTTGATGAGGATGAAAAGAA
AAACAGACTGGAAAAGAGTAACCCATATTTTATGTCTAGGGGCCAATTCACAGAAACAGAT
GTGA

Gene 32. >ENST00000313260 cDNA sequence

ATGGACCAGTGGGGGGTGTATTTCAATCCTGTGCTTGTTTTTGTGTCAGAGTTTCTTTGGT
TATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGTTTTTGCGAAAGATTTTCTACTAT
GGAATGCGAGCAATCCTGATTCTGTACTTCAAAAATTTTCATCAGCTGGGATGATAACCTG
TCCACCGCCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAATTCTCGGAGCT
CTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTGCTCTCCATTGTCTAC
ACAATTGGACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGACCACAACCAT
GATGGCACCCCCGACAGCCTTCCTGTGCACGTGGTGCTGTCTTGATCGGCCTGGCCCTG
ATAGCTCTCGGGACTGGAGGAATCAAACCCTGTGTGTCTGCGTTTGGTGGAGATCAGTTT
GAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTTCATCTTTTACTTGGCTATTAAT
GCTGGAAGTTTGCTTTCCACAATCATCACACCCATGCTCAGAGGTAAGAGATACCTGAAA
GGAACCTTCTGTTGGTCTTTTT

Gene 33. >ENST00000320096 cDNA sequence

GGCCGCCTCCTGGGGCAGAATGGAACAGCCTGGGCCAGGGCTCCGGATCCCTCTCTCTG
CCACCACAACCTCCAGCCAACAGATGACCCCAACTGGGATTCTATGCTACCACTATGAG
GACTGCATTACGCCTAAAACAGGAGCAGTGCCTGCCTTAATTCGCCAAAACGGTATCAG
AAGATTAGGATATACATATTCACTTAGTGATCCTATTCTCAATCAGACACAATATAGTGA
TGAGTACACTTGGAAATCACACTCTAAAGAAGATTTGATCAAAACTGAGACTTCAAGAGG
AATCAAGAGCCACAATCTCATCTCAATGAAGACATTTTCTGTGGACACTACCTCACTG
TCAACAAACGGGGACACTAAAGAACTGCCTCCCTTGGAAAATCCCGGCTTCAATGAAAGA
AGTTAAACAAGGCACTATCAAATCAGTTTATTTCCCTTACTAAGAGAGACTTTGTGGACAG
ATCAAAAGCTCAGAAGATTAAGAAAAGTTCTCACTTGTCTCTGGAATGGAAAAGTTACT

FIGURE 1 (CONT'D)

TCCCCAACCTCCAGACACTGAATTCCGAAGGAATTACCAAATTCAGCTAAAATTCCTGA
GCTTCAAGATTTTCAAGTTTCAAATATGGATGCTACTCAAGCTTGCCTGTTGCTTCTCAGGG
TCTAGTGCCTTCTGTGCTGCACAGCTACCTGAGGAACCAAGAGCACACAAAGAAACAGAC
CACATACCAAAGTGACTACGACAAAACCTACCCAGATTTCTTAATGCTTTTAAACTCATT
TACTTCCTCTCAAGTCAAAGAGTACCTTCAGAGTCTTTCTACAAAGATAGACAAATTAT
TGATCGCTTTATTTCGTACTCACTGTGACACTAACAAAAAGAAGAAATGAAAAGGGAAAAT
AGTACAAATGAAGAAAATCTGAAAATCAATGGAAGCACGAGGACATTCTAGTCATTTTC
TCAATTATCAAGGAAAAATAAGATGCAAATAGCTTC

Gene 34. >ENST00000325317 cDNA sequence

GTGAAGGCCAGAAAAAACAGATTTGGCCATATTGGGGGCTGGTCACCAGGGATGCCAAC
TCTGGCAAAGTGATATTGTCACTATCAATGACCTCAACTACATGGTCTCCATGTTCCAG
TATGATTCCGCTCATGGCAAGTTCCACGGCACCATCAAGGCTGAGAACGGGAAGCCTGCC
ATCAATGACAATCCCATCACCATCTCGCAG

Gene 35. >ENST00000218987 cDNA sequence

CTGGGGTTCGTGGCCGTGGGCCGGCAGGGGCGAGGCGGGCGTCCAGAGGGCGGATAAAAGG
GGCCGCGCTGCGCCGGGGCCGCTTTCTCCGCGCGGTGCCTGCAGGGCTCCAGCGAGTGG
CAGCTTGGGAGGGGCGCCCGGGCGGTGAGACTGGCACCTGAGCGGCCACCGCGTCCCGG
CCAGGCGGGCAGACCGACCCCTCCTCACCTCGCGCGGGCTGACGCAGGCAGGGCGCCC
GGCCCTCCTGGGGACCATCAGGTGCCGGCTGGGGGCTGTAGGCACCGGACGGAAGCAGG
CGGTGTGAGGACCGACGACGCGGGCATGGCGGGGGCGGCCTGCGAGCCGGTGGCCAGGCC
GAGCCTGACCTCCATCTCGTCTGGGGAGCTTCGAGCCTGTGGACCTGCGACTGCGAGCT
GGCCCTGCTGCCGCTGGCTCAGCTGCTGCGCCTGCAGCCCGGTGCCTTCCAGCTGAGCGG
CGACCAGCTCGTGGTGGCCAGGCCCCGGGGAGCCGGCGGGCGCGGGGGGGCTTCAACGT
CTTCGGTGACGGCCTCGTGCCTCGACGGGCAGCTCTACCGCTCAGCAGCTACATCAA
GAGGTATGTGAACTGACCAACTACTGTGATTATAAAGACTACAGGGAACTATATTGAG
CAAACCAATGTTGTTCTTTTATTAATGTACAGACCAAAAAAGACACCTCAAAGAAAGGAC
GTACGCGTTTTCTGTAAACACGAGGCACCCCAAGATAAGAAGACAGATAGAGCAAGGGAT
GGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTTCAGTTTGATTTTCAAGA
GGCAGTGAAGAATTTCTTCCCCCAGGAAATGAAGTGGTTAATGGAGAAAATTTAAGCTT
TGCATATGAATTCAAAGCTGATGCATTATTTGATTTCTTCTATTGGTTTGGGCTCAGTAA
TTCCGTTGTAAAAGTAAATGGAAGGTTCTGAATTTGTCAAGTACAAGTCCAGAAAAGAA
GGAGACGATTAAGTTATTTCTGGAAAAATGAGTGAGCCTTTAATCCGAAGGAGCAGTTT
CTCTGACCGAAAGTTCAGTGTAACCTCCAGAGGTTCAATAGATGATGTTTTTAACTGCAA
TCTGTACCCAGATCATCTCTGACAGAGCCTCTTTTGGCAGAATTACCATTTCCAAGTGT
TCTGGAATCTGAAGAGACACCCAACCAATTTATCTGATTGAACTGAACATTGTAGCAGTT
GCTCCCGCACTCCAGGCCTGTGCTAGACTATAGGCTGGGGGGAGGGTAGGAGGTGGGAGG
CAGATACTTCCACCTGCGTGTCAATCTCCGGCTCCTCCATGGCTTCTATGGAGGACTCCT
CTCTTCTGCTTCTGTGGATGTGATGCCCTGGCAGGCCAGGGCAGCTGATTCCCCATAAAA
CTTATGATTACCAGGATGGAAAGGCCTTGGTCCCATGGCACTGGGTGGGGCTGGGGGATA
TTCTCTACTTTGAACACTTCTCCAAAGAGGCAGAAGGGCCACAGAGTTCTGCCACCCTGA
ACATTTTCTCAGTTCCCTGGGAGTTTTTGTGGCAGCCTTTGTGGGAGTGGTCTGACTGG
CTGTTGACCTAGCATGCTTCATAAATCAGGGTTTGGCCCTCTGCTTGGAGCATCCAACCC
CTTGAACCTCAAACCTGTGAGCAAGGGGTTAAGAGTTCTGTTCTCTTGCCAACCTGGCTG
GGCAAAGCCTGTGCCATCTTTCACTGGGAGGCAAATATGTTTTTTCATCCTGCCATATGA
CACCTATGAGAAACGTTACAGTGAGGAGTAGCCAGGTTGCTAGGACAGTAACCTGCCA
CACACTGCCTGAAATCGGAACTCCCTTGGCCTCCCTCTTAACCTAAGTGACCCATGTAGAA
GGAAGCCAGGAGATATGGTACCGAACAATGACAGGGGAAGGGTATTGGACACGGCAGCGT
CCTCCTTATTGAAAACACATTATGTGAGTTGGGAATTTTAAATAAGCTTTTAGCAAACCT
AACACTAAAAGCAAAATAGAAGAAAGCTATACCATTACCATAATACATTTTTCATCTCAT
GGCTACAATGGAATCTTGAAGGAAAAAATCCTATCTACATATAAAAACCTGCAT
GAATGAATCACTACATATGCTTATAATGAGGAAGAGTTATGGGTCTGAGTGTAATTTT
TATCCTTTCTTAAAAGTTTTCTGTATTATGCATTTTGATAACACTACTGATGATCCTTCC
ACTTATATTTGAAATGTTATGTACCACATTTGCACAATTAAAACTTTTCTTAGCATTCAA
CCT

FIGURE 1 (CONT'D)

Gene 36. >ENST00000261578 cDNA sequence

```
GCTGGCTGCGGAAGGGGAGGGGGGGGAGAAGGCGATTGGATGCGGCGGCGGCGGCGGAT
CCCGGAGAGCCCCGGAGTGAGCGGAGTAGCGAGTCGGCAACCCGGAGGGGGTAGAAATAT
TTCTGTGTCATGGCTCATTCAAAGACTAGGACCAATGATGGAATAATTACATATCCGCCTGG
GGTCAAGGAAATATCAGATAAAATATCTAAAGAGGAGATGGTGAGACGATTAAAGGATGG
TTGTGAAAACTTTTATGGATATGGACCAGGACTCTGAAGAAGAAAAGGAGCTTTATTTAA
ACCTAGCTTTACATCTTGCTTCAGATTTTTTTCTCAAGCATCCTGATAAAGATGTTGCT
TACTGGTAGCCTGCTGCCTTGCTGATATTTTCAGGATTTATGCTCCTGAAGCTCCTTACA
CATCCCCTGATAAACTAAAGGCAAGGATATATTTATGTTTATAACAAGACAGTTGAAGGG
GCTAGAGGATACAAAGAGCCCAATTCATAGGTATTTTTATTTACTTGAGAACATTGC
TTGGGTCAAGTCATATAACATATGCTTTGAGTTAGAAGATAGCAATGAAATTTTCACCCA
GCTATACAGAACCTTATTTTCAGTTATAACAATGGCCACAATCAGAAAGTCCATATGCA
CATGGTAGACCTTATGAGCTCTATTATTTGTGAAGGTGATACAGTGTCTCAGGAGCTTTT
GGATACGGTTTTAGTAAATCTGGTACCTGCTCATAAGAATTTAAACAAGCAAGCATATGA
TTTGCCAAAGGCTTTACTGAAGAGGACAGCTCAAGCTATTGAGCCATATATTACCAATTT
TTTTAATCAGGTTCTGATGCTTGGGAAAACATCTATCAGCGATTTGTGAGAGCATGTCTT
TGACTTAATTTTGGAGCTCTACAATATTGATAGTCATTTGCTGCTCTCTGTTTTACCCA
GCTTGAATTTAAATTAAAGAGCAATGATAATGAGGAGCGCCTACAAGTTGTTAACTACT
GGCAAAAATGTTTGGGGCAAAGGATTGAGAATTGGCTTCTCAAAACAAGCCACTTTGGCA
GTGCTACTTGGGCAGGTTTAATGATATCCATGTACCAATCCGCCTGGAATGTGTGAAATT
TGCTAGCCATTGTCTCATGAACCATCCTGATTTAGCAAAAGACTTAACAGAGTATCTTAA
AGTGAGGTCACATGACCCTGAGGAAGCTATTAGACATGATGTTATTGTGTCAATAGTTAC
AGCTGCTAAAAAGGATATTCTTCTGGTCAATGATCACTTACTTAATTTTGTGAGAGAGAG
AACATTAGACAAACGATGGAGAGTACGCAAGAAGCCATGATGGGACTTGCCCAAATTTA
TAAGAAATATGCTTTACAGTCAGCAGCTGGAAAAGATGCTGCAAAACAGATAGCATGGAT
CAAAGACAAATTGCTACATATATATTATCAAAATAGTATTGATGATCGACTACTTGTTGA
ACGGATCTTTGCTCAATACATGGTTCCCTCACAATTTAGAACTACAGAACGGATGAAATG
CTTATATTACTTGTATGCCACACTGGATTTAAATGCTGTGAAAGCATTGAATGAAATGTG
GAAATGTCAAAATCTGCTCCGACATCAAGTAAAGGATTTGCTTGACTTGATTAAGCAACC
CAAAGTAAATGCCAGTGTCAAGGCCATATTTTTCAAAGTGATGGTTATTACAAGAAATTT
ACCTGATCCTGGTAAGGCTCAGGATTTTCATGAAGAAATTCACACAGGTGTTAGAAGATGA
TGAGAAAATAAGAAAGCAGTTAGAAGTACTTGTAGTCCAACATGCTCCTGCAAGCAGGC
TGAAGGTTGTGTGCGTGAAATAACTAAGAAGTTGGGCAACCCCAAACAGCCTACAAATCC
TTTCTGGAATGATCAAGTTTCTCTTGAGAGGATAGCACCTGTGCACATAGATACCGA
ATCTATCAGTGCTCTTATTAAACAAGTGAACAAATCAATAGATGGAACAGCAGATGATGA
AGATGAGGGTGTTCCAACTGATCAAGCCATCAGAGCAGGTCTTGAAGTCTTAAGGTACT
CTCATTTACACATCCCATCTCATTTTCATTCTGCTGAAACATTTGAATCATTACTGGCTTG
TCTGAAAATGGATGATGAAAAAGTAGCAGAAGCTGCACTACAAATTTTCAAAAACACAGG
AAGCAAAATTGAAGAGGATTTTCCACACATCAGATCAGCCTTGCTTCTGTGTTTACATCA
CAAATCTAAAAAAGGACCCCCCGTCAAGCCAAATATGCCATTCAATTGTATCCATGCGAT
ATTTTCTAGTAAAGAGACCCAGTTTGACAGATATTTGAGCCTCTGCATAAGAGCCTAGA
TCCAAGCAACCTGGAACATCTCATAACACCATTGGTTACTATTGGTCATATTGCTCTCCT
TGCACCTGATCAATTTGCTGCTCCTTTGAAATCTTTGGTAGCTACTTTTCATTGTGAAAGA
TCTTCTCATGAATGATCGGCTTCCAGGGAAAAAGACAACTAACTTTGGGTTCAGATGA
AGAAGTATCTCCTGAGACAATGGTCAAAATTCAGGCTATTAATATGATGGTTCGATGGCT
ACTTGGAATGAAAAATAATCACAGTAAATCAGGAACTTCTACCTTAAGATTGCTAACAAC
AATATTGCATAGTGATGGAGACTTGACAGAACAGGGGAAAATTAGTAAACCAGATATGTC
ACGTCTGAGACTTGCTGCTGGGAGTGCTATTGTGAAGCTGGCACAAGAACCCTGTTACCA
TGAAATCATCACATTAGAACAATATCAGCTATGTGCATTAGCTATCAACGATGAATGCTA
TCAAGTAAGACAAGTGTTTGCCAGAACTTCACAAAGGCCTTTCCCGTTTACGGCTTCC
ACTTGAGTATATGGCAATCTGTGCCCTTTGTGCAAAAGATCCTGTAAAGGAGAGAAGAGC
TCATGCTAGGCAATGTTTGGTGAAAAATATAAATGTAAGGCGGGAGTATCTGAAGCAGCA
TGCAGCTGTTAGTGAAAAATATTGTCTCTTCTACCAGAGTATGTTGTTCCATATACAAT
TCACCTTTTGGCACATGACCCAGATTATGTCAAAGTACAGGATATTGAACAACTTAAAGA
```

FIGURE 1 (CONT'D)

TGTTAAAGAATGTCTTTGGTTTGTCTGGAAATATTAATGGCTAAAAATGAAAATAACAG
TCACGCTTTTATCAGAAAGATGGTAGAAAATATTAACAAACAAAAGATGCCCAAGGACC
AGATGATGCAAAAATGAATGAAAACTGTACACTGTGTGTGATGTTGCCATGAATATCAT
CATGTCAAAGAGTACTACATACAGTTTGAATCTCCTAAAGACCCGGTACTACCAGCTCG
TTTCTTCACTCAACCTGACAAGAATTTAGTAACACCAAAAATTATCTGCCTCCTGAAAT
GAAATCATTTTTCTACTCCTGGAAAACCTAAAAACAACCAATGTTCTAGGAGCTGTTAACAA
GCCACTTTTCATCAGCAGGCAAGCAATCTCAGACCAAATCATCACGAATGGAACTGTAAG
CAATGCAAGCAGCAGCTCAAATCCAAGCTCTCCTGGAAGAATAAAGGGGAGGCTTGATAG
TTCTGAAATGGATCACAGTGAAATGAAGATTACACAATGTCTTCACCTTTGCCGGGGAA
AAAAAGTGACAAGAGAGACGACTCTGATCTTGTAAAGGTCTGAATTGGAGAAGCCTAGAGG
CAGGAAAAAACGCCCGTCACAGAACAGGAGGAGAAATTAGGTATGGATGACTTGACTAA
GTTGGTACAGGAACAGAAACCTAAAGGCAGTCAGCGAAGTCGGAAGAGAGGCCATACGGC
TTCAGAATCTGATGAACAGCAGTGGCCTGAGGAAAAGAGGCTCAAAGAAGATATATTAGA
AAATGAAGATGAACAGAATAGTCCGCCAAAAAAGGGTAAAAGAGGCCGACCACCAAAACC
TCTTGGTGGAGGTACACCAAAAGAAGAGCCAACAATGAAAACCTTCTAAAAAGGAAGCAA
AAAAAATCTGGACCTCCAGCACCAGAGGAGGAGGAAGAAGAAGAAAGACAAAGTGAAA
TACGGAACAGAAGTCCAAAAGCAAACAGCACCGAGTGTCAAGGAGAGCACAGCAGAGAGC
AGAATCTCCTGAATCTAGTGCAATTGAATCCACACAGTCCACACCACAGAAAGGACGAGG
AAGACCATCAAAAACGCCATCACCATCACAAACCAAAAAAATGTCCGTGTAGGACGCTC
CAAACAAGCAGCTACTAAGGAAAATGATTCAAGTGAAGAAGTAGATGTGTTTCAGGGTAG
CTCTCCTGTGATGATATTCCACAGGAAGAAAACAGAGGAGGAGGAAGTTTCTACAGTAAA
TGTACGGCGGCGAAGTGCTAAAAGGGAACGGCGATGAACAAATGTAATTAATAACTTTCT
CTGTGAAAGCTTTGGAAAAATCTTTTTTTTTTTTTTTGGTCAAGCTTGAGGCTGAATAAA
GCCTTTTGATGCACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGAC
CCCATACATTTGTGGTCACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGTCT
TGTGAAAGTGTAATGTGCGATGGCTATGTAGACATAAAGAAGAACTTGTAATATCTTT
TTTCTTTTTTTTAAATGTTTCTGATTTCTGAAGTGCTTGATAGCTTTTATCTGCGGCTTT
AAACTGACAGTACCCGACTGTTTATTGGATCTATTGATTTGAAAAGAATTTGTTAGGATA
GATCTTAAGCAGTAATCTGTGAGTGTGTTGATTTGTATTCTCTGCAATTTTACTGTGAAA
AAAAATTTGTTTTCAACAATTGGTGTCAATTTCTTGATGTCACTATTTGTTGGAGAGTTA
AATGGTCTCTTCCCTTTGTGTATCTTACCTAGTGTCTTACTCCTGGGCACCCTTAATCTTC
AGAGGTGCTAAATTGTCTGCCATTACACCAGAAGGATGCCTCTGATAGGAGGACAACCAT
GCAAATTTGTGAAATAGTCTGAAGTTCTTGGATTACTTTACACCTCAGTATTGATTTGTC
CCAGAATTTTCTGGCCTTTTCATGGCAATGAAAATTTTAAGAAGAAAGATTTAAAGTATTT
TAATTTTAAAGAGTGTGTTATAAAATAATGTACTGAATTTCTTTATCCCATTTTATCATCC
TTTCAGTTTTTTATTAATCTACTGTATCAATAAAATTCTGTAATTTGAATGAGTTTTTAAT
AGTCTAGAATGTTATTGTGTATAGATATTTCTCCTTGAACGTTATGTTGAGAAAATGCAA
ATTACACTATAATATAAAACCTGATATATACACATTAGAAATATTCCAGTTCTCCGTAAC
AGTGTAAAGTTAATCAGAAAGAAAAAATTTTATTGATGCAGTGTGTCTTTATAAAGCTGT
TCTTGAAAGCCAAGTGTGTTTTGTATTTTATAGTGAGTTGCATGTTTTTGAAAAAAGTGCT
GAAAATGGGATGTGCTGTTTTCTGTAAATTATATTTAGCCATAGTATATGATAGATTGC
CCCATACATAGTTTTTTCATCAAGAGTTTATTATTGTACTTTATTTTGGAGCCAAAAAAT
TGATTCTGGGGGGTGGGGGCAGCGTAGAAGTGGTATATCCAAGTATATCAGCTACTGTAG
TTGTACAGTCTTGTGAACTTTGAATGAAATTCACCTTTGTCCAGATTGGGAGAAGTGGA
AATTTATTTGGATTTAGAGCAGGTCTTTTTTTTTCTTCATTGTAATCTGCAAAATGTAGA
AATAAATTACTTAAGGCAGTATCCTTTATACAGTTGTATAAACTGTATTTTGAACCAAAA
CATATAGGTTACTACTTAATGCTTACCTAATTTTCAATTTTAGTATTTTAGGTGCTGTTATG
TTTTTTTCATGGTTAACACCAGAGGGGAAAAAATCATATTCTAACTTATTAAATTTATCAC
ATTGAATAGTGGAACATTTTCATATGATACACCATTATGTTTAAAGATATATTTCCAAGAT
TGGTTATAATAGATGGGGCATATAATAAAGAAGCTACTATTTTGGAAAATGACATTTTAC
TATTTGCCAATGTATATTGCAATTGATGTGATTATTTTTCTTTTAAAGATTTGTTTGTGT
TTATGAAACAGCCATTTATTTTTTAAAAAGTGTGTTTGAATTGTGTCTTAATCTCTCCATA
TTCAACTATTCTTCATTTACAACAATAGTGACACCAGTAATTATGAGAGGCTGTGATATA
TCAAAGCAGCTCAGGTGGGATCAACATACATTGGTTTTGAAATGTTTCCTTAGCTCGGTT

FIGURE 1 (CONT'D)

CTCCCAAACACATAATTTCTGTTTCAGCAGTACAAAGGCATGTTTTAAATCTATAACAT
AAAGAATAAGGAATAGCTTTGTATTTTGTCAATTGATTAAATTGCACCAGAAATGTTTAT
GGAAATATTAAGAACATTTTATAAAACATACGAAAAAGTGATTGTGAAGGATTTTTATTT
GCATGATTATAGTTAAGCAAATTTTCAATTTTGTAAATGCTGTACAGCAGTTTAC
AAAAAATGTTTATTGTAGATTTTGTATGTTCAATGCCAATGAGTCTGTAATTTTACGA
CCTGTCTGTTCTTTTTTGGGTGGATTACGATGTAAATTTTCTTTCTTTCTTTCTTT
TTTTTTTTTTTGTGTAGAAAAATAGGTGCAATAATGATCAAAGTTTTGATGTCTTGAGTC
TCCATCTTAGGGGATTATCTTACGTTTAAAGCTTAACATTTTATGTAGTAAGATTTGGAGA
GCCACATACTTTACAGTAAAATTAAGTGTGTATAAAACATTAATTGCTAACAATTGTTAG
CAAATATTTTCAAGTATAATGTTTCAATTTGAAAATATGTACTGTATAACATTAAGAAAAT
ATTTAACTCCCTGTAAACAAGTTCCATTATGAAAATCTTATTCCTCAGTGAGGTTATCTTG
CTGCACTCTGTAGCAAATTTGTTTAACTACATTATAATAAAATTTCTTGCTGCAGTGCA
ACAGGAGGCTTTTTTCAAGTATCTTCACTGTATATGTAAATTACAAATGTGGCTGTAAAC
TTATTCCAGGTATTAAAGGTTAAATTGCTTTCTATATCTTCTTATAACTTGTAAGTCTGA
TTTTTAAGATTTCTTTTGTCCACTTGTAAGAATGTGAGGAATTTAAGAATTTGTTTAA
TTAGGCATATCTCTGCCATCACATAGTATTATGTCACCATAATGAACAATTGCTATTTAA
ATAGATAACCAATTTTTCAGACACATTTTGGATTTCTGTGAAGTTGAATAAACATAAAAG
CTAA

Gene 37. >ENST00000310787 cDNA sequence

GTGAGAGGTCTCAGCAGAGGGGCGGTCTGCGGGGACAACAATGGCGGGGTTCTGGGTCTGGGA
CAGCACCGCTGGTCTGCTGCCGGACGGCGTGGGCGGTGGCCGCCGAGCAGCTGATGCTGA
GCGCGGCGCTGCGGACCCTGAAGCATGTTCTGTACTATTCAAGACAGTGCTTAATGGTGT
CCCGTAATCTTGGTTTCAAGTGGGATATGATCCTAATGAAAAAATTTTGATAAAATTTCTTG
TTGCTAATAGAGGAGAAATTGCATGTCTGGGTTATTAGAACTTGCAAGAAGATGGGCATTA
AGACAGTTGCCATCCACAGTGATGTTGATGCTAGTTCTGTTTCAATGTGAAAATGGCGGATG
AGGCTGTCTGTGTTGGCCAGCTCCCAACAGTAAAGCTACCTCAACATGGATGCCATCA
TGGAAGCCATTAAGAAAACAGGGCCCAAGCTGTACATCCAGGTTATGGATTCCTTTTCA
AAAACAAAGAATTTGCCAGATGTTTGGCAGCAGAAGATGTCGTTTTTCAATGGACCTGACA
CACATGCTATTCAAGCCATGGGCGACAAGATTGAAAGCAAATTATTAGCTAAGAAAGCAG
AGGTTAATACAATCCCTGGCTTTGATGGAGTAGTCAAGGATGCAGAAGAAGCTGTGAGAA
TTGCAAGGGAAATTTGGCTACCTGTGATGATCAAGGCCTCAGCAGGTGGTGGTGGGAAAG
GCATGCGCATTGCTTGGGATGATGAAGAGACCAGGGATGGTTTTAGATTGTGATCTCAAG
AAGCTGCTTCTAGTTTTGGCGATGATAGACTACTAATAGAAAAATTTATTGATAATCCTC
GTCATATAGAAATCCAGGTTCTAGGTGATAAACATGGGAATGCTTTATGGCTTAATGAAA
GAGAGTGCTCAATTCAGAGAAGAAATCAGAAGGTGGTGGAGGAAGCACCAAGCATTTTTT
TGGATGCGGAGACTCGAAGAGCGATGGGAGAACAAAGCTGTAGCTCTTGCCAGAGCAGTAA
AATATTCTCTGCTGGGACCGTGGAGTTCTTGTGGACTCTAAGAAGAATTTTTATTTCT
TGGAAATGAATACAAGACTCCAGGTTGAGCATCCTGTACAGAATGCATTACTGGCCTGG
ACCTAGTCCAGGAAATGATCCGTGTTGCTAAGGGCTACCTCTCAGGCACAAACAAGCTG
ATATTTCGCATCAACGGCTGGGCAGTTGAATGTGCGGTTTATGCTGAGGACCCCTACAAGT
CTTTTGGTTTTACCATCTATTGGGAGATTGTCTCAGTACCAAGAACCGTTACATCTACCTG
GTGTCCGAGTGGACAGTGGCATCCAACCAGGAAGTGATATTAGCATTTATTATGATCCTA
TGATTTCAAACTAATCACATATGGCTCTGATAGAACTGAGGCACTGAAGAGAATGGCAG
ATGCACTGGATAACTATGTTATTGAGGTGTTACACATAATATTGCATTACTTCGAGAGG
TGATAATCAACTCACGCTTTGTAAAAGGAGACATCAGCACTAAATTTCTCTCCGATGTGT
ATCCTGATGGCTTCAAAGGACACATGCTAACCAAGAGTGAGAAGAACCAGTTATTGGCAA
TAGCATCATCATTGTTTGTGGCATTCCAGTTAAGAGCACAAATTTTCAAGAAAATTCAA
GAATGCCTGTTATTAAACCAGACATAGCCAACTGGGAGCTCTCAGTAAATTTGCATGATA
AAGTTCATACCGTAGTAGCATCAAAACAATGGGTCAAGTGTCTCGGTGGAAGTTGATGGGT
CGAAACTAAATGTGACCAGCACGTGGAACCTGGCTTCGCCCTTATTGTCTGTGAGCGTTG
ATGGCACTCAGAGGACTGTCCAGTGTCTTTCTCGAGAAGCAGGTGGAAACATGAGCATTC
AGTTTCTTGGTACAGTGTACAAGGTGAATATCTTAACCAGACTTGCCGCAGAATTGAACA
AATTTATGCTGGAAAAAGTGACTGAGGACACAAGCAGTGTCTGCGTTCCCGGATGCCCG
GAGTGGTGGTGGCCGTCTCTGTCAAGCCTGGAGACGCGGTAGCAGAAGGTCAAGAAATTT

FIGURE 1 (CONT'D)

GTGTGATTGAAGCCATGAAAATGCAGAATAGTATGACAGCTGGGAAAACCTGGCACGGTGA
AATCTGTGCACTGTCAAGCTGGAGACACAGTTGGAGAAGGGGATCTGCTCGTGGAGCTGG
AATGAAGGATTTATAACCTTTTCAATCATCACCAATTTAATTAGCCATTTGCATGATGCT
TTCACACACAATTGATTCAAGCATTATACAGGAACACCCCTGTGCAGCTACGTTTACGTC
GTCATTTTATTCCACAGAGTCAAGACCAATATTCTGCCAAAAAATCACCAATGGAAATTTT
CATTGATATAAATACTTGTACATATGATTTGTACTTCTGCTGTGAGATTCCCTAGTGTCA
AAATTAAATCAATAAAACTGAGCATTGTCT

Gene 38. >ENST00000257302 cDNA sequence

ATTTACCTTCACGCTGGAGCCAAGATCGCTGCGGGGAGTCCCGTGAAGCACCACTGCCCT
CTAAGACCTTGAAGGGGAAACACCAGAAGGTGTGGGTGCTGAGCTCCGCTGCGTCAGAC
TGCCAGGACCTGAGTGGAACTCAGTGCTGAAACCTGGGTCTCACTGCAGCTGGATAGCA
GCTCTGCCCCGATGGCCCTAGTCTTCGTGTACGGCACCTGAAGCGGGGTGAGCCCAACC
ACAGGGTCTGCGGGACGGCGCCACGGCTCCGCAGCCTTTGCGGCGCGGGCCGCACGC
TGGAGCCCTACCCGTTGGTGATCGCGGGGAGCACAAATCCCGTGGCTGCTGCACCTGC
CCGGCTCGGGGCGCCTCGTGGAGGGCGAGGTCTACGCGGTAGACGAGCGGATGCTGCGCT
TTCTGGATGACTTCGAGAGTTGCCCGGCCCTGTACCAGCGCACGGTGCTGCGGGTACAGC
TGCTGGAGGACCGGGCCCCGGGCGCAGAGGAGCCGCCAGCGCCACCGCGGTGCAGTGCT
TCGTGTACAGCAGGGCCACCTTCCCGCCGGAGTGGGCCCAGCTCCCGCACCATGACAGCT
ACGACTCCGAGGGGCGCACGGGCTGCGCTACAACCCCCGGGAGAACAGATAAGGGGGAC
GGGCAGGGTGGGCCTAGGTTTGAGAGCCCTGGGGCTCCAAGATGCGCCAGCCCATGCTG
GGTGAAGGCGGAAGCCGAACAGGGCCCTTTCCAATGAATCTGCCGGAAGGAACCAATCT
TTCAGTGGCAGCTGATTTTACAAATAATGTTGAGATACGAATAGCAAGGTGCTTCCCTCC
CATCTTTCTACCTGGTAAGAAAAATTTAGGATTTTAACTCCCCTAAATGACATTTAGAGA
ACTCGTGTTATGCCTAATTTCTTCTTCTCCTCGTGTTGTTTCTGCTGTTGGCTCTGCTTT
GAGCTCAAGATAATAATAAATATTTAGGATCAGTGTAAGACTTGGTGTTGCCGCTAGAT
TTTAGCAGCCCTACTATACTGATTCTGGCCTGTAACCCCTGAGAAAGCCGATTTTACACG
GCTGGGTAGAATTTGTAGAAAAGATCCACAGGGCAAGCATGCTGTATATCAGAGTGCCTA
TAGCACCATTCTTCTTAATTTTTCAGATCAAGCTTCACAGCAAATATTAAAGATTATTTAA
ATTTGAAGTCGATGTTTTTGGGAAATC

Gene 39. >ENST00000245316 cDNA sequence

ATGACAAAGAAAAGAAGGAACAATGGTTCGTGCCAAAAGGGCCGCGGCCACGTGCAGCCT
ATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTC
ATTCGAAACATAGTGGAGGCCGAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGAT
GCCTATGTGCTTCCCAAGCTGTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCAC
AGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCCGCAAGGACCGAACACCCCCACCTCGA
TTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACAAAGGCCATGTAA

Gene 40. >ENST00000319015 cDNA sequence

ATGGCCTCAGGTAATGCGTGATGGGAAAGCCTGCCCCCTAACTTCAAGGCCACATCCATG
GTGGATGGCGCCTTCAAAGAGGTGAAGCTGTGAGCTACAAAGGGAAGTACGTGGTCCTC
TTTTTCTACCTCTGGACTTCACTTTTGTGTGCCCCACGGAGATCACTGCAGTCAGCAGC
CATGCCGAGGACTTCCGCAAGCTGGGCTGCGAAGTGCTGGGCATCTTGGTGGACTCTCAG
TTCACCCACCTGGCTTGGATTAAACATCCCCCGGAAGGAGGGAGGCTTGGGCCCCCTGAAC
ATCCCCCTGCTTGCTAATGTGGCATCTGAGGATTACGGTGAGCTGAAAACAGATGAGTGC
ATTGCCTACTGGGGCCTCTTTATCATTGATGGCAAGGTGTCTTTTGCCAGATCACTGTT
AATGATTTGCCTGTGGGACGCTCATTGGATGAGGCTCTGCAGCTGGTCCAGACCATCCAG
TACACGGACGAGCACAGGGAAGTTTGTCTGCTGGCTGGAAGCTTGGCAGTGACACAATT
AAGCTCAACGTGGATGACGGCGAGGAATATTTCTCCAAACAAAATTAG

Gene 41. >ENST00000261628 cDNA sequence

CGCCGCCTTTTACGCACGTGCGGAGCTAACGGACTCGGCGGCGGGCGGGCGGGCGGCCT
GCGCCCCACCCGCACCCCATCTGGACCGCATCGCTGAATGTGCCCGGACCTGCGCCTTCT
GGGTCTCTGAAAGAAGATGAATTTGGCTGAGATTTGTGATAATGCAAAGAAAGGAAGAGA
ATATGCCCTTCTTGAAATTACGACTCATCAATGGTATATTACCAGGGGGTGATGCAGCA
GATTCAGAGACATTGCCAGTCAGTCAGAGATCCAGCTATCAAAGGCAAATGGCAACAGGT
TCGGCAGGAATTATTGGAGGAATATGAACAAGTTAAAGTATTGTGAGCACTTTAGAAAG

FIGURE 1 (CONT'D)

TTTTAAATTGACAAGCCTCCAGATTTCCCTGTGTCTGTCAAGATGAACCATTTAGAGA
 TCCTGCTGTTTGGCCACCCCTGTTCTCTGCAGAACACAGAGCTCCACCTCAGATCAGGCG
 TCCCAATCGAGAAGTAAGACCTCTGAGGAAAGAAATGGCAGGAGTAGGAGCCCGGGGACC
 TGTAGGCCGAGCACATCCTATATCAAAGAGTGAAAAGCCTTCTACAAGTAGGGACAAGGA
 CTATAGAGCAAGAGGGAGAGATGACAAGGCAAGATGCTGTCTTTCTGGAAGGAAGAATAT
 GCAAGATGGTGCAAGTGATGGTGAAATGCCAAAATTTGATGGTGCTGGTTATGATAAGGA
 TCTGGTGGAAGCCCTTGAAAGAGACATTGTATCCAGGAATCCTAGCATTATTGGGATGA
 CATAGCAGATCTGGAAGAAGCTAAGAAGTTGCTAAGGGAAGCTGTTGTTCTTCCAATGTG
 GATGCCTGACTTTTTCAAAGGGATTAGAAGGCCATGGAAGGGTGACTGATGGTTGGACC
 CCCAGGCACTGGTAAACTATGCTAGCTAAAGCTGTTGCCACTGAATGTGGTACAACATT
 CTTCAACGTTTTCTGCTTCTACACTGACATCTAAATACAGAGGTGAATCTGAGAAGTTAGT
 TCGTCTGTTGTTTGGATGGCTAGATTTTATGCCCTACCACGATCTTCATTGATGAGAT
 AGATTCTATCTGCAGTCGAAGAGGAACCTCTGATGAACATGAGGCAAGTCGCAGGGTCAA
 GTCTGAACTGCTCATTAGATGGATGGAGTTGGAGGAGCTTTAGAAAATGATGATCCTTC
 CAAAATGGTTATGGTATTGGCTGCTACTAATTTCCCGTGGGACATTGATGAAGCTTTGCG
 AAGAAGGTTAGAAAAAAGGATATATATACCTCTCCCAACAGCAAAAGGAAGAGCTGAGCT
 TCTGAAGATCAACCTTCGTGAGGTGCAATTAGATCCTGATATTCAACTGGAAGATATAGC
 CGAGAAGATTGAGGGCTATTCTGGTGCTGACATCACTAATGTTTGCAGGGATGCCTCTTT
 AATGGCAATGAGACGGCGTATCAATGGCTTAAGTCCAGAAGAAATCCGTGCACCTTTCTAA
 AGAGGAACTTCAGATGCCTGTTACCAAAGGAGACTTTGAATTGGCCCTAAAGAAAATTGC
 TAAGTCTGTCTCTGCTGCAGACTTGGAGAAGTATGAAAAATGGATGGTTGAATTTGGATC
 TGCTTGAATTTCTGTGAGCTCTTTAATTTCTGGTATTTTTGTTGATAAAATACGAAGAAA
 TTCCTGCAATTTTT

Gene 42. >ENST00000255486 cDNA sequence

CGGAAACATGAGAGAGGACTATCATCTGCTCCTTGCTCTGAATTTCTTTGAACCTCCATG
 CTGGAACCCCTCCTCAGTTCTCCATGCAAACGTTAACCAGGCCCTTTGTGGTGCTTGGTG
 CTGCGCTGGTGCAAGAGAATGCAAAGACACTGTCTGTGGTGGGAAACAGAAAAGCAGAGTG
 AACCACACATTCCAGCGCCGGGAAATTGAGGCAAAAGAAGCATGTGACTGGCTCCGTGCT
 GCCGGGTTCCCGCAATACGCTCAGTTATATGAGGATTACAAATTTCCCATCAACATTGTG
 GCTGTCAAGAATGATCATGATTTTTCTTGAAAAGGACCTTGTAAGAACCTCTTTGCAGACGA
 CTAAATACGTTGAACAAGTGTGCCTCAATGAACTTGATGTGAACCTTCCAAAGGAAAAAG
 GGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCAACAAATGGACTTTCCAAAGAACC
 AGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCGAGGAGACAGAAAT
 GGGTCACCGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCTCTACAGAC
 CTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCGC
 AGCCAGCCGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGC
 AGCAGCCTCCACAGCCCCCAGAGATGTCTCAACCACCCCTTCCACCCCAAGAATGAG
 AAGCCCACGAGGGCTAGGGCCAAATCATTTTTGAAACGCATGGAAACACTCCGAGGGAAG
 GGAGCCCACGGGAGGCATAAGGGGTCTGGGCGGACAGGTGGCCTGGTGATCAGTGGGCCC
 ATGTTGCAGCAGGAGCCAGAGTCCTTTAAGGCTATGCAGTGCATCCAAATACCAAATGGA
 GATCTCCAGAATTGCGCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAGTCG
 AGTGGCGAGAGCAGCCCGTCCGAGCACAGCAGCAGCGGGGTGAGCACGCCCTGCCTGAAG
 GAACGCAAGTGCCACGAGGCCAAACAAGCGCGGGGGCATGTACTTGGAGGACCTAGATGTG
 CTGGCGGGGACAGCACTGCCGGATGCAGGGGACCAAAGCCGTATGCATGAATTTCACTCC
 CAAGAGAATTTGGTGGTGATATTCCCAAGGATCACAAACCAGGAACATTCCCCAAGGCA
 CTTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCAATGGGGTTAATTGGAGGACCGGT
 AGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCGGCTCATGGCGTCC
 TGCCACAGAGCCAGCCGAGTCAGTATCTATGACAATGTCCCTGGCTCCCATCTGTATGCC
 AGCACAGGAGATCTTTTGGACTTGGAGAAAGATGACCTTTTCCCTCACTTGGATGACATT
 CTGCAGCATGTCAATGGGCTCCAAGAGGTAGTCGATGACTGGTCCAAAGATGTCTTGCT
 GAACTGCAAACTCATGATACATTGGTTGGGGAACTGGCTTATCCACCTTTCCATCTCCT
 AATCAGATCACCTTAGATTTTGAAGGTAACCTCTGTCTCAGAAGGTGGGACGACACCCAGT
 GATGTGGAAAGAGATGTAACATCTCTTAATGAATCTGAGCCTCCTGGGGTCAGAGACAGG
 AGGGATTCTGGTGTAGGGCCTCTCTGACCAGGCCAAACAGGCGACTCCGATGGAACAGT

FIGURE 1 (CONT'D)

TTCCAGCTGTGCGACCAGCCCCGGCCGGCCCCAGCATCGCCCCACATCAGCAGCCAGACG
 GCCAGCCAGCTGAGCCTGCTCCAGCGCTTCTCACTGCTCCGCCTCACGGCCATCATGGAG
 AAGCACTCCATGTCCAACAAGCACGGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGG
 ATGAAAGTTCCCGACTACAAAGACAAGGCTGTCTTTGGCGTTCCTCTCATAGTCCACGTC
 CAAAGAACGGGACAGCCCCCTGCCTCAAAGTATTAGCAAGCACTGAGATATCTACGCAGC
 AACTGCCTCGATCAGGTGGGTCTTTTTTCGCAAATCAGGAGTGAAGTCTCGAATCCATGCC
 CTTTCGCCAAATGAATGAAAACCTTCCCTGAGAACGTCAACTATGAAGACCAGTCTGCTTAT
 GATGTGGCGGATATGGTGAAACAGTTCCTTCGGGACCTCCCTGAGCCTCTTTTTACCAAC
 AAGCTCAGTGAGACCTTTCTCCATATCTATCAGTATGTCTCAAAGAGCAGCGGCTGCAG
 GCCGTGCAGGCTGCCATCCTGCTACTGGCCGATGAGAACAGGGAGGTCTGCAGACGCTC
 TTGTGTTTTCTGAACGACGTGTCGCAACTTGGTGGAAGAGAATCAGATGACGCCCATGAAC
 CTGGCAGTGTGTCTGGCCCCCTCCCTCTTTTCATCTTAATTTATTGAAGAAAGAAAGCTCT
 CCACGAGTCATACAGAAGAAATATGCCACTGGGAAGCCAGATCAAAGGACCTCAACGAG
 AATCTGGCAGCAGCTCAGGGGCTAGCGCACATGATCATGGAATGCGACAGACTTTTTGAG
 GTTCCACACGAGTTGGTGGCCAGTCTCGTAACTCGTATGTGGAGGCTGAGATCCACGTG
 CCAACCCTGGAAGAATTGGGGACACAGCTGGAGGAGAGTGGGGCAACTTTCCACACTTAC
 CTGAACCATCTCATCCAGGGCCTCCAGAAAGAAGCCAAGGAGAAGTTCAAAGGATGGGTCT
 ACGTGCTCCAGCACGGACAATACAGATCTTGCTTTCAAAGGTGGGCGACGGGAACCCG
 CTGAAGCTGTGGAAGGCTTCTGTGGAGGTGGAAGCACCCCCCTCAGTGGTCTGAAACGC
 GTGCTGAGAGAGCGCCACCTGTGGGACGAGGACTTTGTGCAGTGAAGGTTGTGGAACT
 CTAGACAGGCAAAACAGAGATCTACAGTATGTGCTGAACAGCATGGCTCCCATCCTTCC
 AGAGACTTTGTGGTTCTCAGGACCTGGAAAACCTGATTTGCCCAAAGGAATGTGTACCCTG
 GTGTCCCTCTCCGTGGAGCATGAGGAAGCCAGCTCCTGGGTGGTGTGCGAGCAGTGGTG
 ATGGACTCGCAGTACTTGATAGAACCCTGTGGCTCTGGCAAGTCAAGACTGACTCACATC
 TGCAGGATAGACCTGAAAGGTCACTCCCCAGAATGGTACAGCAAAGGCTTTGGACATCTG
 TGTGCAGCAGAAGTTGCCAGGATTAGAAACTCTTTCAGCCCCCTCATTGCTGAGGGCCCA
 GAAACTAAATCTGAGTTTTGCCCAGTGTGACATCAAACCTCAGGGAAGAGGAAGCTAAAG
 TGACGAGTGTGGCAGAGAGTGTGCATGTGAGAAAGCGAGAGAAAGAGGAACTGAAGGACG
 CGGTTAATGCCTAAAAATGGAACGTTAAGAAGTTGGAATGTTGGAGATGCAAGAATTTTC
 CAAGAACCTTTCTTAGCCTTCTGGAGATGGCTACATCCCTACTAATATAATTTTAAATG
 AGAACCTTTATATATATTACTTAAATTAATGGACTATTCTTGTGCATTGCCTAATTTG
 CTATTTAAAGGCTTCTAAGAAGCGTATACCTAACTGTAAATAAATGTATGTATAGCATAT
 GTACATATGTGTGTATATCTCCATCTTTACTGTATATATGTAAATAACCAATTTTATATA
 GAATTGTGTGTTTTGAAAATGACGGTGTCTGACTCAGTGAGTCCCTTCTCACACAGTTC
 TTTCCAAGTGGCTCTGGGCCCCATCTCTCCACTGTCTGTAAGCTGTGCAGAACCTGCTG
 CTAACACCAAGGTGTGAACATGCCCTGATGCCTAACCAGATGAGTTAACCAAAGGAAA
 ATAACATTAAAGGAGACTTATGTGTTAACGCTTTGTTTCTGCTATTCAAAAACCTGAGAGT
 GGAGATCTGGGATAAAGCAAGGAAATAATAATTAATCCTCCTTAAAGCAAATGGGGGGGT
 GAGAAGTCATTACCAAATTTAAAGCTAGATGAGGAGTTGCCACTGGGCCCAGTAAGATGG
 AATTTCAAGTGAGATATGGACCACCGGAGTCAGCGAGAGTGACTGAAACAGAAGCGATACC
 TCTCGCTCCCATGCCCATCACTACAGACCCCAAGTCAAGATGAATATCATAGCCTTTACT
 TCTTCACAGCCAAAGGGAGCCCCCTGTGTTGTCTCAAGTTTTTATAAATACATTTTATAAT
 GTTATTAATGTCAATCTATTTGACCAGTGGCCTATTTGGTCAAGTTAATTGGTGTGTTTT
 CTTATTGCACTGAATCAACTCCAGACACCATACAAAGGGAGATGATGGCCATTCCGTTT
 AAATCCTAGATCGTTACAGCTTCAGGGAATTCATATTTTGTATGTGTAGGATACTCTTA
 AAATGTAATTCATTAAACTTTTACAATCTGAAAGACAGGGTTTTTAACTAACATGAGACC
 AAACTATGTTCTTTGATTAGTTTTAGATAGTATAATCGGGTTTTATTAATTTCTTGTGT
 TTCTTCACTAGCCAGTCCAAGCTACCTATGCATTTGACCCAACCTTATTTATTATTGTAC
 AGATGAAGCGAATTGACTCCCTTTAGCCAACCTGCTAATGGATCGAATGTGCTTTTTATTG
 TAATTCACAGCTATAGAGAGAAAGATAACTTATTGTGTGTTGATTTCAAGGAGAGAGA
 TTTTCTTTGGTCACTCATAATAGAGATTGATAAGATTTAGCAACTGGTGTGGAGAAAAA
 AAGAAAAGCAAATGAGTGTGTTTTAGGTTTTTTGCAATTATATGCATTTATGTAATGTTTC
 TGTATCAGCAATGTGCAATTATTTATTGAGAGGAATAAAAAAGCTTTCTATGAGTTTG
 GTATGGTGCAGGAAAATCTTACAGTTTGAATTATGACCTAGAAATTTTTCATTCCCAT

FIGURE 1 (CONT'D)

TCTACCTAAGAAGGAAGCAGTAAATCCATAATTTACCTTTTGGGCAATGCTTTGTGAGCA
 AAACAAAGTCACTTCTGCCATAACATCTTGAATTTAACCATATATGCCAGATTACTTTAT
 ATGCATCAACAAGATCACCAGTGAAGTTTAATCTAGCTAAACACTGGTCTCTGCTCCTGAG
 ATGGGATCCTATGTGTTTTGGAACCGTGATAGGCACACGAGGATGAGTGGCTTTGTATCG
 CCCAGAGAGGTGCTTGTCCAGATTTTACATGCACATGAATTGCCTGGGGATCTTGTGAAA
 CTGCAGACTCTGCTCCAAGTAATCTGGGCTGGGCCTGAGATTCTGCATTTCTAAGGAGTC
 TCAGGGATGCCTATGCTGCTGGCCTAAAACCACACTCAGAAACGAGGACCTAGAAGATCC
 CTA AACAGAATAAGAACAAATGTGATTGTATTTCTGATTCTCCCTCTCTTGAATTATC
 TGACTTTTTTTGTTTTTGTGCACATAGTAATCATATCACCGCTGCATAACAACACAGTGCA
 TCTTTTTTAAACAAGGAAAAGGGAAAAAAGGAGAAAAACGATGCATCAAGCTTGTGTTG
 TCAAATACCACAGTATTTTATTATTGTTATCTTGCCAATGGAAATAAAGTATGATATTG
 CATTTAAATATTATATTTATACCTCATGTATATTTTTACCTCAATTGTTGATATCAATCA
 TCAATTGTAAATAAATAATTGCCAAGGCAAATAAATTT

Gene 43. >ENST00000310336 cDNA sequence

AGCGCCGGAGCGGGCCGGGCTGAGGCGCAGGCGGGGAGCGGGCCCGGCGCCGGCGCTG
 GTGGATGCTGGGGCTCCGAGGCGACGGCCGGGGGGCGGGGGCCGAGGCAGGTATAACGGT
 ACCGGCGGGCGGCAGCGCCGCTGCTCTTCCCTTCTCCTCAGGAGGGGGGCAATGGCTAGC
 GAGAAGCCGGGCCCCGGGCCCCGGGGCTCGAGCCTCAGCCCGTGGGGCTCATTGCCGTCCGG
 GCCGCTGGCGGAGGCGGCGGGGGCAGCGGTGGTGGCGGCACCGGGGGCAGCGGGATGGGG
 GAGCTAAGGGGGGCGTCCGGCTCCGGCTCGGTGATGCTCCCCGCGGGGATGATTAACCTT
 TCGGTGCCGATCCGCAACATCCGGATGAAATTGCGAGTGTTGATTGGACTCATACAGGTC
 GGAGAGGTGAGCAACAGGGACATCGTGGAGACGGTGCTCAACCTGCTGGTTGGTGGAGAA
 TTTGACTTGGAGATGAACTTTATTATCCAGGATGCTGAGAGTATAACATGTATGACAGAG
 CTTTTGGAGCACTGTGATGTAACATGTCAAGCAGAAATATGGAGCATGTTTACAGCCATT
 CTACGAAAAAGTGTTCCGAATTTACAGACTAGCACAGAAGTTGGGCTAATTGAACAAGTA
 TTGCTGAAAATGAGTGCTGTAGATGACATGATAGCAGATCTTCTAGTTGATATGTTGGGG
 GTTCTTGCCAGCTACAGCATCACTGTCAAGGAGTTGAAGCTTTTGTTCAGCATGCTTCGA
 GGAGAAAGTGGAATCTGGCCAAGACATGCAGTAAATATTATCAGTTCTTAATCAGATG
 CCACAGAGACACGGTCTGTATACTTTTTTCAATTTCCCTGGTTGTAGCGCTGCGGCAATT
 GCCTTGCCCTCCTATTGCAAAGTGGCCTTATCAGAATGGCTTACCTTAAACACTTGGTTT
 CGTATGGATCCATTAAATAATATTAATGTTGATAAGGATAAACCTTATCTTTATTGTTTT
 CGTACTAGCAAAGGAGTTGGTTACTCTGCTCATTTTGTGGCAACTGTTTAATAGTCACA
 TCATTGAAGTCCAAAGGAAAAGGTTTTTTCAGCATTGTGTGAAATATGATTTTCAACCACGC
 AAGTGGTACATGATCAGCATTGTCCACATTTACAATCGATGGAGGAACAGTGAAATTCCG
 TGTATGTTAATGGACAACCTGGTATCTTATGGTGATATGGCTTGGCATGTTAACACAAAT
 GATAGCTATGACAAGTGCTTTCTTGGATCATCAGAACTGCTGATGCAAATAGGGTATTC
 TGTGGTCAACTTGGTGCCGTGTATGTGTTTCAAGTGAAGCACTCAACCCAGCACAGATATTT
 GCAATTCATCAGTTAGGACCTGGATATAAGAGTACCTTCAAGTTTAAATCTGAGAGTGAT
 ATTCAATTTGGCAGAACATCATAAACAGGTGTTATATGATGGGAACTTGCAAGTAGCATT
 GCCTTTACATATAATGCTAAGGCCACTGATGCTCAGCTCTGCCTGGAATCATCACAAAA
 GAGAATGCATCAATTTTTGTGCATTCCCCACATGCTCTAATGCTTCAGGATGTGAAAGCG
 ATAGTAACACATTCAATTCATAGTGCAATTCATTCAATTGGAGGGATTCAAGTGCTTTTT
 CCACTTTTTTGCCCAATTGGATAATAGGCAGCTCAATGACAGTCAAGTGGAAACAACCTGTC
 TGTGCTACTCTGTTGGCATTCTCTGGTTGAACTACTTAAAGTTTCAAGTAGCCATGCAAGAA
 CAGATGCTGGGTGGAAGAGGCTTTTTAGTCATTGGCTACTTACTTGAAAAGTCATCAAGA
 GTTCATATAACTAGAGCTGTCTGGAGCAATTTTTATCTTTTGCAAAATACCTTGATGGT
 TTATCTCATGGAGCACCTTTGCTGAAGCAGCTTTGTGATCACATTTTATTTAACCAGCC
 ATCTGGATACATACCTGCAAAGGTTTCAAGCTTTCCCTATACACATATTTGTCTGCTGAA
 TTTATTGGAAGTGTACCATCTACACCACCATACGCAGAGTAGGAACAGTATTACAGCTA
 ATGCACACCTTAAATATTACTACTGGGTATTAAATCCTGCTGACAGTAGTGGCATTACA
 CCTAAAGGATTAGATGGTCCCCGGCCATCAAAAAAGAAATTATATCACTGAGGGCATT
 ATGCTACTTTTTCTGAAACAGCTGATACTAAAGGATCGAGGGGTCAAGGAAGATGAACTT
 CAGAGTATATTAAATTACCTACTTACGATGCATGAGGATGAAAATATTATGATGTGCTA
 CAGTTACTGGTGGCTTTAATGTGGAACACCCAGCCTCAATGATACCAGCATTGATCAA

FIGURE 1 (CONT'D)

AGAAATGGAATAAGGGTGATCTACAAATTATTGGCTTCTAAAAGTGAAAGTATTTGGGTT
CAAGCTTTGAAGGTTCTGGGATACTTTCTGAAGCATTTAGGTACAAGAGAAAAGTTGAA
ATTATGCACACCCATAGTCTTTTCACTCTTCTTGAGAAAGGCTGATGTTGCATACAAAC
ACTGTGACTGTCAACACATACAACACACTTTATGAGATCTTGACAGAACAAGTATGTACT
CAGGTCGTACACAAACCACATCCAGAGCCAGATTCTACAGTGAAAATTGAGAATCCAATG
ATTCTTAAAGTGGTGGCAACTTTGTTAAAAAACTCTACACCAAGTGCAGAGCTGATGGAA
GTTTCGTGTTTTATTTTTATCTGATATGATAAACTTTTCAGTAACAGCCGTGAAAATAGA
AGATGCTTATTGCAGTGTTCACTGTGGCAGGATTGGATGTTTTCTCTTGGCTATATCAAT
CCTAAAAATTCTGAGGAACAGAAGATTACCGAAATGGTCTACAATATCTTCCGGATTCTT
TTGTATCATGCAATAAAATATGAATGGGGAGGCTGGAGAGTCTGGGTGGATACCTCTCA
ATAGCCCATTTCAAGGTCACCTTATGAAGCTCATAAGGAATACCTAGCCAAAATGTATGAG
GAATATCAAAGACAAGAGGAGGAAAACATTAAAAAGGGAAAGAAAGGGAATGTGAGCACC
ATCTCTGGTCTTTTCATCACAGACAACAGGAGCAAAAGGTGGAATGGAAATTCGAGAGATA
GAAGATCTTTCAAAAGCCAGAGCCCAGAAAGTGAGACCGATTACCTGTGAGCACAGAT
ACTCGAGACTTACTCATGTCAACAAAAGTGTGAGATGATATTCTTGAAATTCAGATAGA
CCAGGAAGTGGTGTACATGTGGAAGTACATGATCTTTTAGTAGATATAAAAGCAGAGAAA
GTGGAAGCAACAGAAGTAAAGCTCGATGATATGGATTTATCACCGGAGACTTTAGTAGGT
GGAGAGAATGGTGCCCTTGTGGAGGTTGAATCTCTGTTGGATAATGTATATAGTGCTGCT
GTTGAGAAACTCCAGAACAATGTACATGGAAGTGTGGTATCATTAAAAAAATGAAGAA
AAGGATAATGGTCCATTGATAACATTAGCAGATGAGAAAGAAGACCTTCCAATAGTAGT
ACATCATTTCTCTTTGATAAAATACCCAAACAGGAGGAAAACTACTTCCTGAACCTTCT
AGCAATCACATTATTTCAAATATTCAGGACACACAAGTACATCTTGGTGTTAGTGATGAT
CTTGGATTGCTTGCTCACATGACCGGTAGCGTAGACTTAACTTGACATCCAGTATAATA
GAAGAAAAAGAATTCAAAATCCATACAACCTTCAGATGGAATGAGCAGTATTTCTGAAAGA
GACTTAGCGTCATCAACTAAGGGGCTGGAGTATGCTGAAATGACTGCTACAACCTCTGGAA
ACTGAGTCTTCTAGTAGCAAAATTTGTACCAATATTGATGCAGGAAGTATAATTTAGAT
ACTGAAAGGTCTGACGATGGCAAAGAATCAGGAAAAGAAATCCGAAAATCCAAACAAT
ACTACGACACAAGCTGTGCAGGGTCTGCTATCACCCAACAAGACCGAGATCTCCGAGTT
GATTTAGGATTTTCGAGGAATGCCAATGACTGAGGAACAGCGACGCCAGTTTAGCCCAGGT
CCACGGACTACAATGTTTTCTGATTTCTGAGTTTAAATGGTCTCCAATGCACCAGCGGCTT
CTCACTGATTTACTATTTGCATTAGAACTGATGTACATGTTTGGAGGAGCCATTCTACA
AAGTCTGTAATGGATTTTGTCAATAGCAATGAAAATATTATTTTTGTACATAACACAATT
CACCTCATTTCCCAAATGGTAGACAACATCATCATTGCTTGTGGAGGAATTTTACCTTTG
CTCTCTGCTGCTACATCACCAACTACGGAATTGGAAAATATTGAAGTGACACAAGGCATG
TCAGCTGAGACAGCAGTAACTTTCTCAGCCGGCTGATGGCTATGGTTGATGTACTTGTG
TTTGCAAGCTCTCTAAATTTTAGTGAGATTGAAGCTGAGAAAAACATGTCTTCTGGAGGT
TTAATGCGACAGTGCCCTAAGATTAGTTTGTGTGTTGCTGTGAGAACTGTTTAGAATGT
CGGCAAAGACAGAGAGACAGGGGAAATAAATCTTCCCATGGAAGCAGTAAACCTCAGGAA
GTTCTCTCAAAGTGTGACTGCTACAGCAGCTTCGAAGACTCCATTGGAAAATGTTCCAGGT
AACCTTTCTCCTATTAAAGGATCCGGATAGACTTCTTCAGGATGTTGATATCAATCGCCTT
CGTGCTGTTGTCTTTCCGGATGTGGATGATAGCAACAAGCACAGTTCTTAGCTCTGGCT
GTTGTTTACTTCATTTTCGGTTCTGATGGTTTCCAAGTATCGTGACATATTAGAACCCAG
AGAGAGACTACAAGAACTGGAAGCCAACCAGGTAGAAACATCAGGCAAGAAATAAATTC
CCAACAAGTACAGTTGTGGTCATACCATCTATCCCTCATCCAAGTTTGAACCATGGATT
CTTGCCAAGTTAATTCCTGAGCAGAGCTTTGGCCACTCATTTTACAAAGAAACACCTGCT
GCATTTCCAGACACCATAAAAGAAAAAGAAACACCAACTCCTGGTGAAGATATTCAGGTA
GAAAGTTCAATTCCTCATAAGATTGAGGAATTGGAGAGGAGCAAGTGGCTAGCATCCTG
AATGGGGCAGAATTAGAAACAAGTACAGGCCCTGATGCCATGAGTGAACCTCTATCCACT
TTGTATCCGAAGTGAAGAAATCAAGAGAGCTTAACTGAAAATCCTAGTGAACGTTG
AAGCCTGCAACATCCATATCTAGCATTAGTCAACCAAGGCATCAATGTGAAGGAAATA
CTGAAAAGTCTTGTGGCTGCTCCAGTTGAAATAGCAGAATGTGGCCCTGAACCTATCCCA
TACCCAGATCCAGCATTGAAGAGAGAAACACAAGCTATTCTTCTATGCAGTTTCATTCC
TTTGACAGGAGTGTGTGGTGCCTGTAAAGAAACACCTCCAGGTAGTTTAGCTGTAACC
ACTGTGGGAGCCACTACTGCTGGAAGTGGGCTGCCAACAGGCAGTACCTCTAATATATTT

FIGURE 1 (CONT'D)

GCTGCTACTGGAGCTACACCAAAAAGTATGATTAATACAACAGGTGCCGTGGATTTCAGGG
TCCTCCTCCTCTTCCTCCTCTTCTAGTTTTGTGAATGGTGCTACTAGCAAAAACCTTCCA
GCTGTACAAACTGTTGCTCCAATGCCAGAAGATTGAGCTGAAAATATGAGCATCACTGCA
AACTTGAAAGAGCGTTAGAAAAAGTTGCTCCTCTTCTTCGTGAAATTTTTGTAGACTTT
GCCCCATTCTATCTCGTACACTTCTTGGCAGTCATGGACAAGAGCTATTGATAGAAGGC
CTTGTGTTGTATGAAGTCCAGCACATCTGTGGTTGAGCTTGTTATGCTGCTTTGTTCTCAG
GAATGGCAAACTCTATTGAGAAGATGCAGGACTTGCATTTATTGAGCTCATCAATGAA
GGAAGATTACTGTGCCATGCTATGAAGGACCATATAGTCCGTGTTGCAAATGAAGCTGAG
TTTTATTTTGAACAGACAAAGAGCCGAGGATGTACATAAACATGCAGAGTTTGAGTCACAG
TGTGCCCAATATGCTGCTGATAGAAGAGAGGAAGAAAAGATGTGTGACCATCTTATCAGT
GCTGCTAAACATCGAGATCATGTAACAGCAAATCAGCTGAAACAGAAGATTCTCAATATT
CTCACAATAAACATGGTGCTTGGGGAGCAGTTTCTCATAGCCAATTGCATGATTTCTGG
CGTTTGGATTACTGGGAAGATGATCTTCGTGCAAGGAGACGATTTGTTGCAATGCATTT
GGCTCCACTCATGCTGAAGCATTGCTGAAAGCTGCAATAGAATATGGCACGGAAGAAGAT
GTAGTAAAGTCAAAGAAAAATTGAGAAGTCAAGCAATAGTGAACCAAAATGCAGAGACA
GAACTTATGCTGGAAGGAGACGATGATGCAGTCAGTCTGCTACAGGAGAAAGAAATTGAC
AACCTTGCAGGCCCAGTGTTTCTCAGCACCCCTGCCAGCTCATCGCTCCCGTGGTGGTG
GCCAAGGGGACTCTCTCCATCACCAGCAGAGAAATCTACTTCGAGGTAGATGAGGATGAT
TCTGCCTTCAAGAAGATCGACACGAAAGTTCTTGATACACTGAGGGACTTCACGGAAAA
TGGATGTTGAGCGAGATACGAGCTGTATTTTCAAGACGTTACCTTCTACAAAACACTGCT
TTGGAAGTATTTATGGCAAACCGAACCTCAGTTATGTTTAAATTTCCCTGATCAAGCAACA
GTAAAAAAGTTGTCTATAGCTTGCCTCGGGTTGGAGTAGGGACCAGCTATGGTCTGCCA
CAAGCCAGGAGGATATCATTGGCCACTCCTCGACAGCTTTATAAATCTTCCAATATGACT
CAGCGCTGGCAAAGAAGGGAAATTTCAAACCTTCAATATTTGATGTTTCTTAATACTATT
GCAGGACGGACATATAATGATCTGAACCAATATCCAGTGTTTCCGTGGGTGTTAACCAAC
TATGAATCAGAAGAGTTGGACCTGACTCTTCCAGGAACTTCAGGGATCTATCAAAGCCA
ATTGGTGCTTTGAACCCCAAGAGAGCTGTGTTTTATGCAGAGCGTTATGAGACATGGGAA
GATGATCAAAGCCCACCCTACCATTATAATACCCATTATTCAACAGCAACATCTACTTTA
TCCTGGCTTGTTCGAATTGAACCTTTCAACCTTCTTCTCAATGCAAATGATGGAAAA
TTTGATCATCCAGATCGAACCTTCTCATCCGTTGCAAGGTCTTGGAGAACTAGTCAGAGA
GATACTTCTGATGTAAAGGAACTAATTCCAGAGTTCTACTACCTACCAGAGATGTTTGTCT
AACAGTAATGGATATAATCTTGGAGTCAGAGAAGATGAAGTAGTGGTAAATGATGTTGAT
CTTCCCCCTTGGGCAAAAAAACCTGAAGACTTTGTGCGGATCAACAGGATGGCCCTAGAA
AGTGAATTTGTTTCTTGCCAACTTCATCAGTGGATCGACCTTATATTTGGCTATAAGCAG
CGAGGACCAGAAGCAGTTCTGTGCTCTGAATGTTTTTCACTACTTGACTTATGAAGGCTCT
GTGAACCTGGATAGTATCACTGATCCTGTGCTCAGGGAGGCCATGGAGGCACAGATACAG
AACTTTGGACAGACGCCATCTCAGTTGCTTATTGAGCCACATCCGCCTCGGAGCTCTGCC
ATGCACCTGTGTTTCTTCCACAGAGTCCGCTCATGTTTAAAGATCAGATGCAACAGGAT
GTGATAATGGTGCTGAAGTTTCTTCAAATTCTCCAGTAACCCATGTGGCAGCCAACACT
CTGCCCCACTTGACCATCCCCGAGTGGTGACAGTGAAGTTCAGAGCCGACTCTTTGCAGTG
AATAGATGGCACAACACAGTAGGCCTCAGAGGAGCTCCAGGATACTCCTTGGATCAAGCC
CACCATCTTCCCATTGAAATGGATCCATTAATAGCCAATAATTGAGGTGTAAACAAACGG
CAGATCACAGACCTCGTTGACCAGAGTATACAAATCAATGCACATTGTTTTGTGGTAACA
GCAGATAATCGCTATATTCTTATCTGTGGATTCTGGGATAAGAGCTTCAGAGTTTATTCT
ACAGAAACAGGGAAATTGACTCAGATTGTATTTGGCCATTGGGATGTGGTCACTTGCTTG
GCCAGGTCCGAGTCATACATTGGTGGGGACTGCTACATCGTGTCCGGATCTCGAGATGCC
ACCCTGCTGCTCTGGTACTGGAGTGGGCGGCACCATATCATAGGAGACAACCTTAACAGC
AGTGACTATCCGGCACCAAGAGCCGTCCTCACAGGCCATGACCATGAAGTTGTCTGTGTT
TCTGTCTGTGCAGAACTTGGGCTTGTTATCAGTGGTGCTAAAGAGGGCCCTTGCCCTGTCT
CACACCATCACTGGAGATTGCTGAGAGCCCTTGAAGGACCAGAAAACTGCTTATTCCCA
CGCTTGATATCTGTCTCCAGCGAAGGCCACTGTATCATATACTATGAACGAGGGCGATTTC
AGTAATTTGAGCATTAATGGGAACTTTTGGCTCAAATGGAGATCAATGATTCAACACGG
GCCATTCTCCTGAGCAGTGACGGCCAGAACCTGGTCACCGGAGGGGACAATGGGGTAGTA
GAGGTCTGGCAGGCCTGTGACTTCAAGCAACTGTACATTTACCCTGGATGTGATGCTGGC

FIGURE 1 (CONT'D)

ATTAGAGCAATGGACTTGTCCCATGACCAGAGGACTCTGATCACTGGCATGGCTTCTGGT
AGCATTGTAGCTTTTAATATAGATTTTAATCGGTGGCATTATGAGCATCAGAACAGATAC
TGAAGATAAAGGAAGAACC AAAAGCCAAGTTAAAGCTGAGAGCAAGTGCTGCATGGAA
AGGCAATATCTCTGGTGGAAAAA ACTCGTCTACATCGACCTCCGTTTGTACATTCCATCA
CAGGCAATAGCTGTACATTGTAGTCAGCAACCATTTTACTTTGTGTGTTTTTTCACG
ACTGAACACCAGCTGCTATCAAGCAAGCTTATATCATGTAAATTATATGAATTAGGAGAT
GTTTTGGTAATTATTTTATATATTGTTGTTTATTGAGAAAAGGTTGTAGGATGTGTACA
AGAGACTTTTGAACAATTCTGAGGAACCTTGTGTCCAGTTGTTACAAAGTTTAAGCTTTGA
ACCTAACCTGCATCCCATTTCCAGCCTCTTTTCAAGCTGAGAAAAA AAAAAA AACAAG
TTTGATACTTTGTACATCAGATGCATCTTATTTAAAAGGGATACTTTTGTAAAAGTAAAA
CCTTGTATAAAGAACA AAATGTTTCTTAATTTTATTGTGGAGTTACAACCTGCATGTTCC
TTACTCCTGTTGGCTTGATGGAACAGGTGCATTCACTATGAAACAGAAAGATCTGTCC
AAGGACACAGCTTGTATGAAAGGGTTGAATTTGGGCTCCATCAGTAATTTTGTACATTTT
CACCAAAATATAGTTTGCACCTTTTAACTCTAAAGTCATCCCTTCTGAGTGAAATTTGCTC
ATAAAGCATTTGGATACTAAGCCATTATTTGCCATTTTGGGTACTTTATACAAAGAAAAT
TCAGCCCTACCCTGCATAATTTGAAGACACAGCAGAAAGGGGGCTTAGGGATGAGGTCCT
GGTTTTTCTTGATAAATAGGAGTCATGGGCGTTAGTTCTGTAGTAATAACTTCCAGCA
CCTGGACATCTCTCCAGAGTTATCCCACTGGCTTGGTGTGTATACATTAGGGGAGGATA
ATCTGATGCTAACTTTTTTTTTCTCTTTGGTTCTTGAATAGCTTAGTTTCTTTAATAACA
AGTCAAACCTTTATTACAACAATAACTGAAGTTATTCTTTTAGGTTCTCGTGAAATTTCTCA
CTGAAAGCCACATTCTTAGCCTAAGGCATTTTCATCTTTATGATATAAAATGATGGCTAT
CAAATGATTTTCCATACATTGTACTGATCAAGTTATACACCCAGGGGTATATACACTTTC
TTCATGTTTCTTCTTTGTATATTTGGTGACTGTATCGTCATAGATGTACATATTGTGTCTG
GTAGGGCTATGAGGCATGTTACAGGAATGTAATTTTCTCAGAATTTCACTCACTCGCAG
TCATTTATTTAAAAAGATAAAACAAGATAATGGGTTCTTTGTATTGGCACTTTGCACCAG
AAACATATCATTATTTATTGATGTGATTACTTATTTGTTATCCACCTTGTACTAGTAAGT
TTTAGCACTGAATTCCTTCTTCACTGTTGTTTGTATTATGAAATTTCTGAAATTTATGGGG
AATCAGCGTAATGATTAAGTTATTCATCACCAGGCTGTAAGCAATATCTTGAGTTTGTAG
CTTAGAATTGGGAGGATACTTAACATCTGGAAGACAAGTTCAATTTATCTTGAGATCATG
GTGAAATATTTTGGATATATAAATTCCTTAAGCTATTGTAACCATGTTTTATTGCAAAGA
TGTAATATATGCCAGATGTGTGTGAGTTGGAAATCAAAAAAGAAAAATAAATATGCAA
AGAATTC

Gene 44. >ENST00000333692 cDNA sequence

ATGGCAGAGCAAGAGCAAAAGAAAAATCCCTTTGGTTCTAGAAAATCTGAAAAAGAGGAAG
GCTTATCAAGCCCTCAAAGCCACTCAGGCAAAGCAGGCACTTTTAGCAAAGAAGGAGCAG
AAGAAAGGAAAACAGCTCAGGTTTAAGCGACTGGAATCATTCCCTATATGATTCCCTCGTGG
CAGAAACACGACAAGCTGCATCTCAGACAACCTAGAAGTGAAACCTCATGCCTTGGAAATTG
CCAGATAAACATTCTTGGCCTTTGTTTTACGCATCCAAAGAATTAATGGTGTGACTTCA
CTGGTGCAGAGAACCATTGCAAGACTTTGCCTGAAGAAAATTTTCAGTGGTATCTTTGTA
AAAGTCACCCCAAAGAGCAAAATGTTGCTTATAGTAGAACCTTATGTGAACTGGGGATTT
CCACTAAAGTCTGTCCAAGAACTCATTTTGAACATGAACAAGCCAAGGTCAAGAATGAG
ACCATCCCTCTGACAGACAGCAAGCAATTGAGGAGCACCTGGGGGAGTTTGGTGTCAATT
TGCCTGGGAGACCTCATACATGAAATTGCCTTCCAGGGAAAGTATTTCCAGGAGATCTCA
TGGGTCTTGCACCCTTTCCACCTCTCGGTGGCCCATCATGCTACCAAGAATAGAGTGGGC
TTCCTCAAGGAGATGGCCTCACCTGGG

Gene 45. >ENST00000325028 cDNA sequence

GCACTTCAGCTTCCCTCCCTCCCGGCGCCCTCTGGGGCTCCGAGCCCGGCGGGACCATGTT
CACCAGCACCGGCTCCAGTGGGCTCTACAAGGCGCCTCTGTGGAAGAGCCTTCTGCTGGT
CCCCAGTGCCCTCTCCCTCCTGCTCGCCCTCCTCCTGCCTCACTGCCAGAAGCTCTTTGT
GTATGACCTTCACGCAGTCAAGAACGACTTCCAGATTTGGAGGTTGATATGTGGAAGAAT
AATTTGCCTTGATTTGAAAGATACTTTCTGCAGTAGTCTGCTTATTTATAATTTTAGGAT
ATTTGAAAGAAGATATGGAAGCAGAAAATTTGCATCCTTTTGTCTGGGTTCTGGGTTTT
GTCAGCCTTATTTGACTTTCTCCTCATTTGAAGCTATGCAGTATTTCTTTGGCATCACTGC
AGCTAGTAATTTGCCTTCTGGATTCTGGCACCTGTGTTTGTCTGTGTTGTACCATTTTA

FIGURE 1 (CONT'D)

CTGCTCCATACCAAGAGTCCAAGTGGCACAAATTCTGGGTCCGTTGTCCATCACAAACAA
GACATTGATTTATATATTGGGACTGCAGCTTTTCACCTCTGGTTCCTACATCTGGATTGT
AGCCATAAGTGGACTTATGTCCGGTCTGTGCTACGACAGCAAAATGTTCCAGGTGCATCA
GGTGCTCTGCATCCCCAGCTGGATGGCAAAATTTCTTTTCTTGGACACTTGAACCCATCTT
CTCTTCTTCAGAACCCACCAGCGAAGCCAGAATTGGGATGGGAGCCACGCTGGACATCCA
GAGACAGCAGAGAATGGAGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGG
GAGGCGACAGAGACAGCAGCAGGGAGGAATGATCAATTGGAATCGTCTTTTCTCCTTTT
ACGTGAGCGACAAAACGTAAACTATCAGGGCGGTCCGCAGTCTGAGCCAGCAGCGCCCC
TCTAGAAGTTTCTGAGGAACAGGTCGCCCCGGTCTCATGGAGATGGGATTTTCCAGAGGTGA
TGCTTTTGAAGCCCTGAGAGCTTCAAACAATGACCTCAATGTCGCCACCAACTTCCTGCT
GCAGCACTGATAGTCCCAGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGCGT
GGTCCCCACCATCAGATCAGCCCCGGGGACCGAGCATCTCTGGTGCTGATGTTCTTGTGGG
AAGAGGGAGGTTCCACCGCACCCCTGCCCTCAACCGCAAGACTGTTGCCGTTTTAGTGTG
GAGATAAGTTTGCCATTACATTAGCATGTATTTTCTATCTATATTTTTTATTGGGCATTT
TCCCTAGGTTGGAGAGTCAGCACTCGTTTTGAATGTGTTTAAATGCATTAAATGGAAG
ATTTCTGCAGGCAGTTGAATGGCACTCCAGATGGGGAATTGCTGTAAACCTCTTACTGTA
ACATGTCTATCTCCTGCGTCGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTC
AGATCCTTCTTCATGGACTTTTTTAGTTACTGTTTTTCTCTCAAACCTGTTTTTGAATC
TCCTGGGAGTGAGGGAGAAACAGGGAGCTGAATCCTCCCCAAGCTGTTCCAGGCCAGAG
GACTCTGCAGTACCTTCTCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGT
TCAAGGTTCTGGAGTTCTCCATGAAACTTGGGTTAATTTTGTCTCAGAGTATCCAGAGTTA
GCCACTAGGCTGCGGGTGAAATGGGATGGAGAAGAACACAGCAGGCTTCTTGAGGCCAC
ATGGGCTGACTAGGGCACTCTGTGGCTGGCCTGGCATGGGCTCAGCCCAGGAAGAGGAGA
AACGATCCCTTGCCCTGCCCCCTCCTGTGGCAGGGCTAACTGCCTGGCCCTCCTGGCTCGC
AGCCAGCCAGCCCCCTGGCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGA
CAGGAGGCAGGGCAGACTGTGGAGGACAGGATGCAGGTGAGGGAGAGGGAAGGCAGGGGT
GGACCGCCATGAGCATGAAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTA
TGTTCTGCAAAATGAGCAACGATGTATCAAATTGATGCAAAATTTAGATGTTGATACTTAC
AATAAAGTTTTTAAATGTGT

Gene 46. >ENST00000257320 cDNA sequence

ATGTTTACCAGCACCGGCTCCAGTGGGCTCTGTGAGTACCGGCCTCCGCCATCCTGGCTG
CCCCCTACACGCCACCCTAGGCACCTCTTTGAGGAGGCTGGGGCAGCGGGGACCCCTCGGG
TTTGCCGGAGGTGGTGGGGCCGACCCTCCAGACCCGCGTCCGAACCCCTGCTAGTTCCCGG
TCTTGGGGGTGAGCGGAAACCGCCCCCATTTTGGGCTGGAGGGGCGAATGGGGACAAAGC
CCCGCCGCCGCCCGACCCACCTGGTATCCCCAGGTGCTCTGCCCAGGAGTCTCTTGG
GGCCGCTGCAAGTGGGCAGGTGCCCTGGTGTCTCGTGGGCCGGCCCCAGGCCCTTTGCG
GAGCGTGTGCCGCGCTGAAGGAAGGGGCCGTCCCCCTTACCATGCCCCATTCTTTTAGGC
TTGGGGGACCGAACTAACTCCCCCGCCCCCACTTGCAAAGTTTCAAGCTCCGCTTTAGAA
GCTGACCTCTCAGTTTCACTTGGATGTGTTTCTTCTTCACTCTCCAAGAAGAGTTTTTAG
ACAAACACACACTGATGAGAGTGCTTTCAAGTGGAGGGAAGTTAGGAAGTCGTGGCGAGG
GAGCGCAGCTGTGCTGCTGGATGTTGCTGTTTTCTGGCGTGTAGCGGTGGTCAGCAGA
CAAGGCGCCTCTGTGCAAGAGCCTTCTGCTGGTCCCCAGTGCCCTCTCCCTCCTGCTCGC
CCTCCTCCTGCCTCACTGCCAGAAGCTCTTTGTGTATGACCTTCACGCAGTCAAGAACGA
CTTCCAGCCTGGCACCTGTGTTTGTCTGTGTTGTACCATTTTACTGCTCCATACCAAGAG
TCCAAGTGGCACAAATTCTGGGTCCGTTGTCCATCACAAACAAGACATTGATTTATATAT
TGGGACTGCAGCTTTTTCACCTCTGGTTCTTACATCTGGATTGTAGCCATAAGTGGACTTA
TGTCCGGTCTGTGCTACGACAGCAAAATGTTCCAGGTGCATCAGGTGCTCTGCATCCCCA
GCTGGATGGCAAAATCTTTTCTTGGACACTTGAACCCATCTTCTCTTCTTCAGAACCCA
CCAGCGAAGCCAGAATTGGGATGGGAGCCACGCTGGACATCCAGAGACAGCAGAGAATGG
AGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGGGAGGCGACAGAGACAGC
AGCAGGGAGGAATGATCAATTGGAATCGTCTTTTTCTCCTTTTACGTGAGCGACAAAACG
TAAACTATCAGGGCGGTCCGCAGTCTGAGCCAGCAGCGCCCCCTCTAGAAGTTTCTGAGG
AACAGGTGCGCCGGCTCATGGAGATGGGATTTTCCAGAGGTGATGCTTTGGAAGCCCTGA
GAGCTTCAAACAATGACCTCAATGTCGCCACCAACTTCCTGCTGCAGCACTGATAGTCCC

FIGURE 1 (CONT'D)

AGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGCGTGGTCCCCACCATCAGAT
CAGCCCGGGGACCGAGCATCTCTGGTGCTGATGTTCTTGTGGGAAGAGGGAGGTTCCACC
GCACCCCTGCCCTCAACCGCAAGACTGTTGCCGTTTTAGTGTGGAGATAAGTTTGCCATT
ACATTAGCATGTATTTTCTATCTATATTTTTTATTGGGCATTTTCCCTAGGTTGGAGAGT
CAGCACTCGTTTTGAATGTGTTTAAAATGCATTAAAATGGAAGATTTCTGCAGGCAGTTG
AATGGCACTCCAGATGGGGAATTGCTGTAAACCTCTTACTGTAACATGTCATCTCCTGCG
TCGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTCAGATCCTTCTTCATGGA
CTTTTTTAGTTACTGTTTTTTCTCTCAAACCTGTTTTTGAATCTCCTGGGAGTGAGGGAG
AAACAGGGAGCTGAATCCTCCCCAAGCTGTTCCAGGCCAGAGGACTCTGCAGTACCTTC
TCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGTTCAAGGTTCTGGAGTTC
TCCATGAACTTGGGTTAATTTTGTCTCAGAGTATCCAGAGTTAGCCACTAGGCTGCGGGT
GAAATGGGATGGAGAAGAACACAGCAGGCTTCCTGGAGCCACATGGGCTGACTAGGGCA
CTCTGTGGCTGGCCTGGCATGGGCTCAGCCAGGAAGAGGAGAAACGATCCCTTGCTGC
CCCTCCCTGTGGCAGGGCTAACTGCCTGGCCCTCCTGGCTCGCAGCCAGCCAGCCCCCTG
GCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGACAGGAGGCAGGGCAGAC
TGTGGAGGACAGGATGCAGGTGAGGGAGAGGGAAGGCAGGGGTGGACCGCCATGAGCATG
AAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTATGTTCTGCAAAATGAGC
AACGATGTATCAAATTGATGCAATTTAGATGTTGATACTTACAATAAAGTTTTTAATGT
GTTTT

Gene 47. >ENST00000298386 cDNA sequence

GGCACTGAACCTTACTACATCAGAACTCCTGCTGAGGTATAAGAGGATACGTCTAATAACT
CAATTGCTGTAAACCTATGATTGTTTTCTGGTTTTTAAACATCTCTTCAGCCTCAGATT
GATTACAATGTTCTTTCTACTTCATTTTCATCGTTCTGATCAATGTCAAAGATTTTGCACT
GACTCAAGGTAGCATGATCACTCCTTCATGCCAAAAGGATATTTTCCCTGTGGGAATCT
TACCAAGTGCTTACCCCGAGCTTTTCACTGTGATGGCAAGGATGACTGTGGGAACGGGGC
GGACGAAGAGAACTGTGGTGACACTAGTGGATGGGCGACCATATTTGGCACAGTGCATGG
AAATGCTAACAGCGTGGCCTTAACACAGGAGTGCTTTCTAAAACAGTATCCACAATGCTG
TGACTGCAAAGAACTGAATTGGAATGTGTAAATGGTGACTTAAAGTCTGTGCCGATGAT
TTCTAACAAATGTGACATTACTGTCTCTTAAGAAAAACAAAATCCACAGTCTTCCAGATAA
AGTTTTTCATCAAATACACAAAACCTTAAAAGATATTTCTTCAGCATAATTGCATTAGACA
CATATCCAGGAAAGCATTTTTTGGATTATGTAATCTGCAAATATTATATCTCAACCACAA
CTGCATCACAACCTCAGACCTGGAATATTCAAAGACTTACATCAGCTAACTTGGCTAAT
TCTAGATGACAATCCAATAACCAGAAATTTACAGCGCTTGTTTACGGGATTAAATTCCTT
GTTTTTCTGTCTATGGTTAATAACTACTTAGAAGCTCTTCCCAAGCAGATGTGTGCCCA
AATGCCTCAACTCAACTGGGTGGATTTGGAAGGCAATAGAATAAAGTATCTCACAAATTC
TACGTTTCTGTGCGGATTGCTCAGAGTGCTGTTTCTGCCTAGAAATCAAATTGGTTTT
TGTTCCAGAGAAGACATTTTCTTCATTAAAAAATTTAGGAGAACTGGATCTGTCTAGCAA
TACGATAACGGAACCTATCACCTCACCTTTTTAAAGACTTGAAGCTTCTACAAAAGCTGAA
CCTGTATCCAATCCTCTTATGTATCTTCAAGAACCAGTTTGAAAGTCTTAAACAACT
TCAGTCTCTAGACCTGGAAAGGATAGAGATTCCAAATATAAACACACGAATGTTTCAACC
CATGAAGAATCTTTCTCACATTTATTTCAAAAACCTTTCGATACTGCTCCTATGCTCCCA
TGTCCGAATATGTATGCCCTTGACGGACGGCATTTCTTCATTTGAGGACCTCTTGGCTAA
CAATATCCTCAGAATATTTGTCTGGGTATAGCTTTTATTACCTGCTTTGGAAATCTTTT
TGTCATTGGCATGAGATCTTTTATTAAAGCTGAAAATACAACTCACGCTATGTCCATCAA
AATCCTTTGTTGTGCTGATTGCCTGATGGGTGTTTACTTGTTCTTTGTTGGCATTTCGA
TATAAAATACCGAGGGCAGTATCAGAAGTATGCCTTGCTGTGGATGGAGAGCGTGCACTG
CCGCCTCATGGGGTTCTGGCCATGCTGTCCACCGAAGTCTCTGTTCTGCTACTGACCTA
CTTGACTTTGGAGAAGTTCTGGTCATTGTCTTCCCCTTCAGTAACATTCGACCTGGAAA
ACGGCAGACCTCAGTCATCCTCATTGTCATCTGGATGGCGGGATTTTAAATAGCTGTAAT
TCCATTTTGGAAATAAGGATTATTTTGGAACTTTTATGGGAAAAATGGAGTATGTTTCCC
ACTTTATTATGACCAAAACAGAAGATATTGGAAGCAAAGGTATTCTCTTGGAAATTTTCT
AGGTGTGAACCTTGCTGGCTTTTCTCATCATTGTGTTTTCTATATTACTATGTTCTGTTT
CATTCAAAAACCGCCTTGACAGACCACAGAAGTAAGGAATTGTTTTGGAAGAGAGGTGGC
TGTTGCAAATCGTTTCTTTTTTATAGTGTTCTCTGATGCCATCTGCTGGATTCTGTATT

FIGURE 1 (CONT'D)

TGTAGTTAAAATCCTTTCCCTCTTCCGGGTGGAAATACCAGACACAATGACTTCCTGGAT
AGTGATTTTTTTTCCCTTCCAGTTAACAGTGCTTTGAATCCAATCCTCTATACTCTCACAAC
CAACTTTTTTTAAGGACAAGTTGAAACAGCTGCTGCACAAACATCAGAGGAAATCAATTTT
CAAAATTAAAAAAGTTTATCTACATCCATTGTGTGGATAGAGGACTCCTCTTCCCT
GAAACTTGGGGTTTTTGAACAAAATAACACTTGGAGACAGTATAATGAAACCAGTTTCCTA
GCAATCATTTTGGATCACTGGACTTTTCACTGGACTACCTAAAACAGGGGACAGCTTTTGG
AAGATGACATCTGCAATGCTTTTCTCTTTACCAACGGCAAGCCTTTCTGCACAGAGAGC
ACAGCAGAATGGCTCCTGTCACTGCATTCCAATGGCAGCTGTACTATCTACCAACCATGC
TGAGGACAGCACCAAGGTTCTCTCTCACCCACATGCCTGAAAAGCACATGTGAATT
CGTGTATAGTGGGCTGAGGTGCAGCTGATCTCTAGCTAATCAACACAACCCACCAACAAA
TGACCACAGGTTGGCACTGTGTGGTCTTTTCACTCGGGTTGCACTGTCCATGAAATAGAA
ACACTCACAACATCTGATTCCAGTGTGGCCATAATAACAGAAATCTAACAACTCTTTCCT
TGCCTTTTTCAATATCAAATAAAACCATCAGCATCCTGCTGGATTGATA

Gene 48. >ENST00000267291 cDNA sequence

ATGGCAGCGCCACCTTCTCCAGGAAGGACGGCCGACCAAGCAGACCAGGTATGCACCTTC
CTCTTCAAAAAGCCTGGACGGAAGGGGCTGCAGGCCTCAGAAAGCGCCCGGCTGCGAC
CCCGAGCACGGAGAGAGCAGCAGCAGCGGGACGAGGGCGACACAGTGGCTCAGCCCCG
CGGGTGGCACCGAGGCCCCGGGGCCTCCACAGCTGGCAGAAGGCGGCTCACGGCGACAGG
AGGGGCGAGGAGGCGGCGCTGAGAGCCTCGACGTGGTGTACAGGTCCACCCGCTCGGCG
AAGCCTGTGGGGCCAGAGGACATGGGGGCCACCGCTGACTTCGAGCAGGACACCGAGAAG
GAGCACCATACGCCGACCATCCTCAAGTGCAGCCAGCGGTCCAGGAGGCACTGCGGGGT
CGGGAGCACGACCACATCTACCGGGGAATCCACAGCTACCTGAGGTACCTGAAGCCCAAG
GACACGTCCATGGGCAACTCCTCCTCGGGGATGGCGAGGAAGGGCCCCATACGTGCGCCA
GGGCATCTGCGCGCCACTGTGCGCTGGGATTACCAGCCTGACATCTGCAAGGACTACAAG
GAGACTGGCTTCTGTGGCTTCGGGGACAGCTGCAAATTCCTCCACGACCGTTCCGATTAC
AAGCTCGGGTGGGAGATTGAACGGGAGCTTGAAGAGGGTCGCTACTGTATCTGCGAGGAC
GAAAACCATGAAGTGGGAAGCGAGGAAGAGGAAATACCATTCAAGGTGTTTCATATGTGCG
CAGGCCTTCCAAAACCCAGTCGTCAACAAGTGCAGGCATTATTTCTGCGAGAGCTGCGCG
CTGGAGCACTTCCGGGGCCACCCCGCGCTGCTACATCTGTGACCAGCCAACCGGCGGCATC
TTTAACCCCGCCAAAGAACTGATGGCGAAACTGCAAAAGCTTCAGGCTGCAGAAGGT

Gene 49. >ENST00000319562 cDNA sequence

GCGACCCGGAGCCCGCTCCCCACCCACCCCGCCTGCTCCGCCCTCCCCTCCGCCCGCGC
CACCTTTGATGGCTCGGACCTCAGCCGGCCACCGCCAGCCCTGCTCGCGCGCCCGCGCCG
CCGCCCGCCCGGGTATTAATAGCCGGCGCCCGCCCGCCCTCGGCCCGCGGGGCTTGGG
AGCCGCCGATCCCGGAGCCCGAGCCGGGAGAGGGAGCCGCCGAGCCCGCGCGCTGTGG
AGATATTCTCTAAGCCGCTTTTCATCATGGGAGAAATAGAGCAGAGGCCGACCCAGGATC
ACGACTGGGGGCCCCGAAAATTTCGGGGATCAGTACCTTGGAAACGTGGACAGAAGCCGCC
CCCAACACCTTCAGGAAAATCTGTGTCCATCAAAATCCAGATGCTGGATGACACCCAGGA
GGCATTTGAAGTTCCACAAAGAGCTCCTGGGAAGGTGCTGCTGGATGCAGTTTGCAACCA
CCTCAACCTCGTGGAAGGTGACTATTTTGGCCTCGAGTTTCTGATCAGAAAAGATCAC
GGTGTGGCTGGATCTCCTAAAACCCATTGTGAAACAGATTAGAAGGCCAAAGCACGTTGT
TGTTAAGTTTGTGGTGAAATTCTTTCCGCCTGACCACACACAACTCCAAGAAGAACTCAC
AAGGTACCTGTTTCGCGCTGCAGGTGAAGCAGGACTTGGCTCAAGGCAGGTTGACGTGTAA
TGACACCAGCGCAGCTCTCTTGATTTTCAACATTGTGCAATCTGAGATTGGGGATTTTGA
TGAAGCCTTGGACAGAGAGCACTTAGCAAAAAATAAATACATACCTCAGCAAGACGCACT
AGAGGACAAAATCGTGGAATTTTACCATAACCACATTGGACAAAACACCAGCAGAATCAGA
TTTCAGCTCCTAGAGATTGCCCGTCGGCTAGAGATGTATGGAATCCGGTTGCACCCGGC
CAAGGACAGGGAAGGCACGAAGATCAATCTGGCCGTTGCCAACACGGGAATTCTAGTGTT
TCAGGGTTTCACTAAGATCAATGCCTTCAACTGGGCCAAGGTGCGGAAGCTGAGCTTCAA
GAGGAAGCGCTTTCTCATCAAGCTCCGGCCAGATGCCAATAGTGCCTACCAGGATACCTT
GGAATTCCTGATGGCCAGTCGGGATTTCTGCAAGTCCTTCTGGAAAATCTGTGTTGAACA
TCATGCCTTCTTTAGACTTTTTGAAGAGCCCAACCAAAGCCCAAGCCCGTCCTCTTTAG
CCGGGGGTCTCATTTTCGGTTTCAGTGGTTCGACTCAGAAGCAGGTTCTCGACTATGTTAA
AGAAGGAGGACATAAGAAGGTGCAGTTTGAAAGGAAGCACAGCAAGATTCAATCTATCCG

FIGURE 1 (CONT'D)

GAGCCTTGCTTCACAGCCTACAGAACTGAATTTCGGAAGTGCTGGAGCAGTCTCAGCAGAG
 CACCAGCCTTACATTTGGAGAAGGTGCCGAATCTCCAGGGGGCCAGAGCTGCCGGCGAGG
 AAAGGAACCGAAGGTTTCCGCCGGGGAGCCGGGGTTCGACCCGAGCCCTGCGCCGAGGAG
 AAGCCCCGCGGGTAACAAGCAGGCGGACGGAGCCGCCTCGGCGCCACGGAGGAAGAGGA
 GGAGGTCGTTAAGGATAGGACCCAGCAGAGTAAACCTCAGCCCCCGAGCCAAGCACAGG
 CTCCCTGACTGGCAGTCTCACCTTTCCGAGCTGTCTGTGAACTCGCAGGGGGGAGTGGC
 CCCTGCCAACGTGACCTTGTCTCCCAACCTGAGCCCCGACACCAAGCAGGCCTCTCCCTT
 GATCAGCCCGCTGCTGAATGACCAGGCCTGCCCCCGACGGACGATGAGGATGAGGGCCG
 GAGGAAGAGATTCCCAACTGATAAAGCGTACTTCATAGCTAAGGAAGTGTCTACCACCGA
 GCGAACATATCTGAAGGATCTCGAAGTTATCACTTCGTGGTTTCAGAGCACAGTGAGCAA
 AGAGGACGCCATGCCGGAAGCACTGAAAAGTCTCATATTCCCGAATTTTGAACCTTTGCA
 CAAATTTTCACTAATTTTCTCAAGGAAATTGAGCAACGACTTGCCCTGTGGGAAGGCCG
 CTCAAATGCCCAAATCAGAGATTACCAAAGAATCGGCGATGTCTGCTGAAGAACATTCA
 GGGCATGAAGCACCTGGCGGCTCACCTGTGGAAGCACAGCGAGGCCTTGGAGGCCCTGGA
 GAATGGAATCAAGAGCTCCCGGCGGCTGGAGAATTCTGCAGAGACTTTGAGCTGCAGAA
 GGTGTGTTACCTACCGCTCAACACCTTCCTCCTGCGGCCACTGCACCGGCTCATGACTA
 CAAGCAGGTCTGGAGCGGCTGTGCAACACCACCCGCGGAGCCACGCCGACTTCAGGGA
 CTGCCGAGCCGCTTTTGGCAGAGATCACGGAGATGGTGGCACAGCTCCACGGTACGATGAT
 CAAGATGGAGAATTTCCAGAAGCTGCACGAACTCAAGAAAGATTTGATTGGCATTGACAA
 TCTTGTGGTTCCGGGAAGGGAGTTTCATCCGTCTGGGCAGCCTCAGCAAGCTCTCGGGGAA
 GGGGCTCCAGCAGCGCATGTTCTTCTGTTCAACGACGTCCTGCTATACACGAGCCGGGG
 GCTGACGGCCTCCAATCAGTTTAAAGTCCACGGGCAGCTCCCGCTCTATGGCATGACGAT
 TGAGGAGAGCGAAGACGAGTGGGGGGTGCCCCACTGCCTGACCCTCCGGGGCCAGCGGCA
 GTCCATCATCGTGGCCGCCAGTTCTCGGTCCGAGATGGAGAAGTGGGTTGAGGACATCCA
 GATGGCCATTGACCTGGCGGAGAAGAGCAGCAGCCCCGCCCCCTGAGTTCTTGCCAGCAG
 CCCCCCTGACAACAAGTCCCCTGATGAAGCCACCGCGGCTGACCAGGAGTCAGAGGATGA
 CCTGAGCGCCTCGCGCACATCGCTGGAGCGCCAGGCCCCGACCGCGGCAACACAATGGT
 GCACGTGTGCTGGCACCGCAACACCAGCGTCTCCATGGTGGACTTCAGCATCGCAGTGGA
 GAATCAGTTGTCTGGAAACCTGCTGAGGAAATTCAAAAACAGCAACGGGTGGCAGAAGCT
 GTGGGTGGTGTTCACAACTTCTGCCTGTTCTTCTACAAATCACACCAGGACAATCATCC
 CCTTGCCAGCCTGCCTCTGCTCGGCTACTCGCTCACCATCCCCTCTGAGTCCGAGAACAT
 CCAGAAAGACTACGTGTTCAAGCTGCACTTCAAGTCCCACGTCTACTACTTCAGGGCGGA
 AAGCGAGTACACGTTTCGAAAGGTGGATGGAAGTGATCCGCAAGTGCCACCAGCTCTGCCTC
 GCGACCCACGCTGTTGAGTCACAAAGAGTCTCTTGTGTATTGATGGCCGGACACACTCGT
 TTCCGCAGTGGCTGCTTTCTGGAAGACGTTTCTTTCTTCTGTATTAATGAAGCCTGGT
 AAAATTAACACCTGTCTGAAAATCAAAAACATGGCTTCCCAGCAGCTC

Gene 50. >ENST00000310635 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAAACGCAGAGCGCCTCTCCTCCT
 CCAAAGGAACGCAGTTCTCTACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
 GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTAATCTGAGCTACGGGAGGACATTCAA
 ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAAATTTAGAAGAATGTATAACTAGAATA
 ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
 CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGTATCAGCA
 ATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
 AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
 ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAAACTCTGCAGGAT
 ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAATTTCAGGAAATA
 CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
 TTCACCAAAGTTGAAATGAAGGAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTTCGGGTT
 ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTTACAAGCC
 AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
 TCATATCCAGCCAAATTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
 CAAATGTTGAGAGATTTTGTCAACACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
 CTAAACATGGAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAATGTAA

FIGURE 1 (CONT'D)

Gene 51. >ENST00000255303 cDNA sequence

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ATGACAGGATCAAATTCACACATAACAATATTAACCTTTAAATATAAATGGACTAAATTCT
GCAATTTAAAGACACAGACTGGCAAGTTGGATAAAGAGTCAAGACCCATCAGTGTGCTGT
ATTCAGGAAACCCATCTCACGTGCAGAGACACACATAGGCTCAAATAAAAGGATGGAGG
AAGATCTACCAAGCCAATGGAAAACAAAAAAGGCAGGGGTTGCAATCCTAGTCTCTGAC
AAAACAGACTTTTAAACCAACAAAGATCAAAGAGACAAAGAAGGCCATTACATAATGGTA
AAGGGATCAATTCAACAAGAGGAGCTAACTATCCTAAATATTTATGCACCCAATACAGGA
GCACCCAGATTCTATAAAGCAAGTCCTCAGTGACCTACAAAGAGACTTAGACTCCACACA
TTAATAATGGGAGACTTTAACACCCCCTGTCAACATTAGACAGATCAACGAGACAGAAA
GTCAACAAGGATACCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATC
TACAGAATCTCCACCCCAAATCAACAGAATATACATTTTTTTTTCAGCACCAACACCACACC
TATTCCAAATTTGACCACATAGTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAACA
GAAATTATAACAAACTATCTCTCAGACCACAGTGCAATCAACTAGAACTCAGGATTAAG
AATCTCACTCAAAGCCGCTCAACTACATGGAACTGAACAACCTGCTCCTGAATGACTAC
TGGGTACATAACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAACGAGAACAAA
GACACCACATACCAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGAAATTTATA
GCACTAAATGCCTACAAGAGAAAGCAGGAAAGATCCAAATTTGACACCCTAACATCACAA
TTAAAGAACTAGAAAAGCAAGAGCAAAACACATTCAAAGCTAGCAGAAGGCAAGAAATA
ACTAAATCAGAGCAGAACTGAAGGAAATAGAGACACAAAAAACCTTCAAAAAATCAAT
GAATCCAGGAGCTGGTTTTTTTGAAGGATCAACAAAATTGATAGACCGCTAGCAAGACTA
ATAAAGAAAAAGAGAGAGAAGAATCAAATAGACACAATAAAAAATGATAAAGGGGATATC
ACCACCGATCCACAGAAATACAACTACCATCAGAGAATACTACAAACACCTCTACGCA
AATAAACTAGAAAATCTAGAAGAAATGGATACATTCTCGACACATACACTCTCCAAGA
CTAAACCAGGAAGAAGTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGTGGCA
ATAATCAATAGTTTACCAACCAAAAAGAGTCCAGGACCAGATGGATTACAGCCGAATTC
TACCAGAGGTACATGGAGGAACTGGTACCATTCTTTCTGAAACTATTCCAATCAATAGAA
AAAGAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCATTCTGATACCAAAGCCG
GGCAGAGACACAACCAAAAAAGAGAATTTTAGACCAATATCCTTGATGAACATTGATGCA
AAAATCCTCAATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAGCTTATCCAC
CATGATCAAGTGGGCTTCATCCCTGGGATGCAAGGCTGGTTCAATATACGCAAATCAATA
AATGTAATCCAGCATATAAACAGAGCCAAAGACAAAAACCATGATTATCTCAATAGAT
GCAGAAAAAGCCTTTGACAAAATTCAACAACCTTCATGCTAAAACTCTCAATAAATTA
GGTATTGATGGGACGTATTTCAAATAATAAGAGCTATCTATGACAAACCCACAGCCAAT
ATCATACTGAATGGGCAAAAACCTGGAAGCATTCCCTTTGAAAACCGGCACAAGACAGGGA
TGCCCTCTCTCACCCTCTTATTCAACATAGTGTTGGAAGTTCTGGCCAGGGCAATCAGG
CAGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTT
GCAGACGACATGATTGTTTATCTAGAAAACCCCATCGTCTCAGCCCAAAATCTCCTTAAG
CTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTACAAAATCACAAGCA
TTCTTATACACCAACAACAGACAAACAGAGAGCCAGATCATGGGTGAACTCCCATTCACA
ATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAGCTTACAAGGGATGTGAAGGACCTC
TTCAAGGAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGAGACAAACAAATGGAAG
AACATTCCATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAG
GTAATTTACAGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCACAGAATTG
GAAAAAACTACTTTAAAGTTTCATATGGAACCAAAAAAGAGCCCGCATCGCCAAGTCAATC
CTAAGCCAAAAGAACAAAGCTGGAGGCATCACACTACCTGACTTCAAATATACTACAAG
GCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGATCAATGGAAC
AGAACAGAGCCCTCAGAAATAATGCCGCATATCTACAACCTATCTGATCTTTGACAAACCT
GAGAAAAACAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGCTGGGAAAACTGG
CTAGCCATATGTAGAAAGCTGAAACTGGATCCCTTCTTACACCTTATACAAAATCAAT
TCAAGATGGATTAAAGATTTAAACGTTAAACCTAAAAACATAAAAAACCTAGAAGAAAAC
CTAGGCATTACCATTGAGGACATAGGCGTGGGCAAGGACTTCATGTCCAAAACACCAAAA
GCAATGGCAACAAAAGACAAAATTGACAAATGGGATCTAATTAACTAAAGAGCTTCTGC
ACAGCAAAAGAACTACCATCAGAGTGAAACAGGCAACCTACAACATGGGAGAAAATTTTT
GCAACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATT

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FIGURE 1 (CONT'D)

TACAAGAAAAAACAACCAACCCCATCAAAAAGTGGGTGAAGGACATGAACAGACACTTC
TCAAAAGAAGACATTTATGCAGCCAAAAACACATGAAGAAATGCTCATCACTGGCC
ATCAGAGAAATGCAAATCAAAACCACTATGAGATATCATCTCACACCAGTTAGAATGGCA
ATCATTAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGCGGAGAAATAGGAACACTT
TTACTACTGTTGGTGGGACTGTAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCT
CTCAGGGATCTAGAAGTAGAAATACCATTTGACCCAGCCATCCCATTACTGGGTATATAC
CCAAATGAGTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCA
CTATTACAATAGCAAAGACTTGGAACCAACCCAAATGTCCAACAATGATAGACTGGATT
AAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCATAAAAAATGATGAGTTC
ATATCCTTTGTAGGGACATGGATGAAATTGGAACCATCATTCTCAGTAACTATCGCAA
GAACAAAAACCAAACACCGCATATTCTCACTCATAGGTGGGAATTGA

Gene 52. >ENST00000323941 cDNA sequence

GTCGGGAAGATGGCGCTACGTCTGCTGCGGAGGGCGGCGCGGAGCTGCGGCGGCGGCG
CTGCTGAGGCTGAAAGCGTCTCTAGCAGCTGATATCCCCAGACTTGATATAGTTCCTCA
TCCCATCACAAGTACATCCCCCGGAGGGCAGTGCTTTATGTACCTGGAAATGATGAAAAG
AAAATAAAGAAGATTCCATCCCTGAATGTAGATTGTGCAGTGCTCGACTGTGAGGATGGA
GTGGCTGCAAAACAAAAGAATGAAGCTCGACTGAGAATTGTAAAACTCTTGAAGACATT
GATCTGGGCCCTACTGAAAAATGTGTGAGAGTCAACTCAGTTTCCAGTGGTCTGGCGGAA
GAAGACCTAGAGACCTTTTTGCAATCCCGGGTCTTCTTCCAGCCTGATGCTACCAAAG
GTGGAAGTCTCTGAAGAAATCCAGTGGTTTGCAGACAAATTTTCATTCCACTTAAAGGC
CGAAAACCTTGAACAACCAATGAATTTAATCCCTTTTGTGGAACCTGCAATGGGTTTGTCTC
AATTTTAAGGCAGTGTGTGAAGAAACCTGAAGGTGCGGCCTCAAGTAGGTCTCTTTCTA
GATGCAGTCGTTTTTGGAGGAGAAGACTTTTCAGCCAGCATAGGTGCAACAAGTAGTAAA
GAAACCTTGATATTCTCTACGCCCCGCAAAAGATTGTTGTATAGCGAAAGCCTTTGGT
CTCCAAGCCATAGATCTGGTGTACATTGACTTTTCAGATGGAGCTGGGCTGCTTAGACAG
TCACGAGAAGGAGCCGCCATGGGCTTCACTGGTAAGCAGGTGATTACCCCTAACCAATT
GCCGTGGTCCAGGAGCAGTTTTCTCCTTCCCCTGAAAAAATTAAGTGGGCTGAAGAACTG
ATTGCTGCCTTTAAAGAACATCAACAATTAGGAAAGGGGCTTTACTTTCCAAGGGAGT
ATGATCGACATGCCATTACTGAAGCAGGCCAGAACACTGTTACGCTTGCCACCTCCATC
AAGGAAAAATGATCTGTTAAATGAAGCTGTATCAGGGAATGCTGAGCTGCAATGACCAT
TACTGTAGAGTTACAACAAGAGGGTAAAGTTTATACATGGCGACCTGTGTCAAATCCGTC
CATTGATCTGCCCTCCAGCACACATTTACTGAGCTTCTGTTACGTGCCTGTGGTTCTTGG
AAAGAGCTTTTTCTTCTCTACAAGGAGGAATCTGATGCAACTGACATCCTCAATAGCTA
CAGAGAACTTGCAAAGGAGTAGAGAGAATGTTTGAGGTCCAGCCTTGGTGTAGAGAAGCG
GCAGAAACAGAAATCCCAAAGGTGTATGCTTGGCTCCAGCTCTGTGCTCTCAGAACTC
CCTTCCCTCTGGGCAGAGGCCCATCTGCTCTGTTTACACACCTGGACCTGGTGTGAAGGG
AGGTTTGGAGGAGGGTAGCTCCCTGACCATTTGTGGAATCGTTTCTGCTTCCAAGCAGCA
TGCTACAGGCCAGCCTTCAAAGAAAGACCAGAAGCCAAGTGTACTCTGTATCACTTAAT
AATGCTTGAAGCTTTTTCATATAACAAAAGGAATGAAGCAGCCCCGCCTCGCAGTGTGGAA
GCCTGATCATTCTTCCATCAGCTCTGCACCAAAAAGCTTTTCTGAGCTTTGAATATTAG
ATCTGACCAATATGGGTAAACCAATGCCCTTAGGTAAGGTAAAATAGGAATAAAATAGCTG
TTTGCAATGTTATTTTACCACACAGTGTGGTAGGGAGGGAAGTATGTTGCAATGCAA
AGTAATCTAGTAGTACTGTTTGTAGAACAGACAAGTGTGTCCAATTTAAAGAATATCAAC
ATCATTTTTCTATATCATACTCTTGTGAGGTTGGATTTAACACAGAGGCAGAAAGTTGG
TCTACTTTGCTCGTTTCTGGCAACTAGCATGGTGCCTGCCCCTAATACATTTTCACTGAA
TGAATGAATCAGTGAGTTAATGAATAAAATAACAAATGGGAGGTGTTCTCCTTTATATTG
TGTTAGAGGCTGAGGATATAGAAATATGTAACCTCAGAGTCCCATTCCACAAGCCCATGCT
AGTGAGCCAACACAAACAAAAACAACCTCAAATCAATGTGATTAATTCTTAAATCATA
GCACTAACATTCACTAGTCATGTCCAGCTCTTCTTTATGTACAGGTACCTAGACATAGCG
GAACAGAAAACCTTCAAAGTTTCACTAGTCTGGAAAAACAAATGAAGCAAAGAAGG
CACAAACCCATATGGAAGCAAGACAGAAATATGTACAGGGCAGAGAGGCTGCACTGTG
TCATTTAATCACGAAGACTCTGTTATTAGACTGCTCGAATACACAAAGCTGTGTTACCTT
GGACATGTTACTTCACCTCTCTGGGCTTCAGTTGTCTCATTCTGTAAAATGGTGATATTA
CTGGAACCTCATCTCATAGGGTTGTTAGTGAGTGAATGTTTGTAAAAACAGGATAGTGCCCA

FIGURE 1 (CONT'D)

GCACATACTAGTAACAAATGTAAAATACATGAAACAAATAAATATTTCTGTGTCCTCTG
AACTTTAAACTCTCATC

Gene 53. >ENST00000255481 cDNA sequence

CGCGCAGCATGCCCGCCAGCGACGCCCGCCCGCCCGCCCGCCCGCGCTGCTGCTGCTGCTGCTGGTCTGCTGGGCTGGGCGGCCCGCCCTGCGTGCGGAGCCGGGCGACGCGCGCAGACCTGGGCGCGTTTCTCGCGGCCCTCCTGCCCCGAGGCCGCGGGCCCTTTCCAGGGCACCTTCCCCGACGGCTTCTCTGGGCCGTGGGCAGCGCCGCTTACCAGACCGAGGCGGGCTGGCAGCAGCACGGCAAGGGTGCGTCCATCTGGGATACGTTACCCACCACCCCCTGGCACCCCCGGGAGACTCCCAGAACGCCAGTCTGCCGTTGGGCGCCCCGTGCGCGTGCAGCCCCACCGGGGACGTAGCCAGCGACAGCTACAACAACGTTCTCCGCGACACGGAGGCGCTGCGCGAGCTCGGGGTCACTCACTACCGCTTCTCCATCTCGTGGGCGCGAGTGCTCCCAATGGCAGCGCGGGCGTCCCCAACCGCGAGGGGCTGCGTACTTACGGCGCCTGCTGGAGCGGCTGCGGGAGCTGGGCGTGACGCCCGTGGTCACCCTGTACCCTGGGACCTGCCCCAGCGCCTGCAGGACGCTACGGCGGCTGGGCCAACCGCGCCCTGGCCGACCACTTTACGGGATTACGCGGAGCTCTGCTTCCGCCACTTTCGGCGGTGAGGTCAAGTACTGGATCACCATCGACAACCCCTACGTGGTGGCCTGGCACGGCTACGCCACCGGGCGCCTGGCCCCGGCATCCGGGGCAGCCCGCGGCTCGGGTACCTGGTGGCGCACAACTCCTCCTGGCTCATGCCAAAGTCTGGCATCTCTACAATACTTCTTTCCGTCCCACTCAGGGAGGTGAGGTGTCCATTGCCCTAAGCTCTCACTGGATCAATCCTCGAAGAATGACCGACCACAGCATCAAAGAATGTCAAAATCTCTGGACTTTGTACTAGGTTGGTTTGGCAAACCCGATTTATTATGATGGTGACTATCCGAGAGCATGAAGAATAACCTTTCATCTATTCTGCCGTGATTTTACTGAACTTGAGAAAAAGTTTCATCAAAGGAACTGCTGACTTTTTTGTCTTTTGTCTTTGGACCCACCTTGAGTTTTCAACTTTTGGACCCTCACATGAAGTTCGCCCAATTGGAATCTCCCAACCTGAGGCAACTGCTTTCCTGGATTGACCTTGAATTTAACCATCCTCAAATATTTATTGTGGAAAAATGGCTGGTTGTCTCAGGGACCACCAAGAGAGATGATGCCAAATATATGTATTACCTCAAAAAGTTCAATCATGAAACCTTAAAGCCATCAAGCTGGATGGGGTGGATGTATCGGGTATACCGCATGGTCCCTCATGGATGGTTTCGAGTGGCACAGAGGTTACAGCATCAGGCGTGGACTCTTCTATGTTGACTTTCTAAGCCAGGACAAGATGTTGTGGCAAAGTCTTCAGCCTTGTTCTACCAAAAGCTGATAGAGAAAAATGGCTTCCCTCCTTTACCTGAAAAATCAGCCCCTAGAAGGGAATTTCCCTGTGACTTTGTCTTGGGGAGTTGTTGACAACTACATTCAAGTAGATACCACCTGTGCTCAGTTTACCGACCTGAATGTTTACCTGTGGGATGTCCACCACAGTAAAAGGCTTATTAAGAGTGGATGGGGTTGTGACCAAGAAGAGGAAAACTTACTGTGTTGACTTTGTGCTGCCATCCAGCCCCAGATCGCTTTACTCCAGGAAATGCACGTTACACATTTTCGCTTCTCCCTGGACTGGGCCCTGATTCTCCCTCTGGGTAAACAGTCCAGGTGAACCACACCATCCTGCAGTACTATCGCTGCATGGCCAGCGAGCTTGTCCGTGTCAACATCACCCAGTGGTGGCCCTGTGGCAGCCTATGGCCCCGAACCAAGGACTGCCGCGCCTCCTGGCCAGGCAGGGCGCCTGGGAGAACCCTTACACTGCCCTGGCCTTTGCAGAGTATGCCGACTGTGCTTTCAAGAGCTCGCCATCACGTCAAGCTTTGGATAACGATGAATGAGCCGTATACAAGGAATATGACATACGTGCTGGCCACAACCTTCTGAAGGCCCATGCCCTGGCTTGGCATGTGTACAATGAAAAGTTTAGGCATGCTCAGAATGGGAAAAATATCCATAGCCTTGCAGGCTGAATTGGATAGAACCCTGCCTGCCCTTTCTCCCAAAGGACAAAGAGGTGGCTGAGAGAGTTTTTGGAAATTTGACATTGGCTGGCTGGCTGAGCCATTTTTCGGCTCTGGAGATTATCCATGGGTGATGAGGGACTGGCTGAACCAAAGAAACAATTTTCTTCTTCTTATTTCACTGAAGATGAAAAAAGCTAATCCAGGGTACCTTTGACTTTTTTGGCTTTAAGCCATTATACCACCATCCTTGTAGACTCAGAAAAGAAGATCCAATAAAATACAATGATTACCTAGAAGTGCAAGAAATGACCGACATCACGTGGCTCAACTCCCCAGTCAGGTGGCGGTAGTGCCCTGGGGGTGCGCAAAGTGCTGAACGGCTGAAGTTCAAGTACGGAGACCTCCCCATGTACATAATATCCAATGGAATCGATGACGGCTGCATGCTGAGGACGACCGCTGAGGGTGTATTATATGCAGAATTACATAAACGAAGCTCTCAAAGCCACATACTGGATGGTATCAATCTTTGCGGATACTTTGCTTATTTCGTTTACGACCGCACAGCTCCGAGGTTTGGCCTCTATCGTTATGCTGCAGATCAGTTTGGAGCCCAAGGCATCCATGAAACATTACAGGAAAAATTATTGACAGCAATGGTTTCCCGGGCCAGAAACTCTGGAAAGATTTTGTCCAGAAGAATTACCGTGCTACTGAGTGCAGTTTTTTTTTCAACCCGAAAGTCTTTACTGGCTTTTCATAGCTTTCTATTTTTTGTCTTATTATTCTCTCTCCTTATATTTTTTACTACTCGAAGAAAGGCAGAAGAAGTTACAAATAGTTCTGAACATTTT

FIGURE 1 (CONT'D)

TCTATTTCATTTCATTTTGAATAATTATGCAGACACATCAGCTGTTAACCATTTGCACCTC
 TAAGTGTGTGAACTGTAAATTTATACATTTGACTTCTAGAAAACATTTTGTGGCTT
 ATGACAGAGGTTTTGAAATGGGCATAGGTGATCGTAAAATATTGAATAATGCGAATAGTG
 CCTGAATTTGTTCTCTTTTTGGGTGATTAAAAACTGACAGGCACTATAATTTCTGTAAC
 AACTAACAAAAGCATGAAAAATAGGAACACACCAATGCAACATTTGTGCAGAAATTTG
 AATGACAAGATTAGGAATATTTTCTTCTGCACCCACTTCTAAATTTAATGTTTTTCTGGA
 AGTAGTAATTGCAAGAGTTTCAATAGAAAGTTATGTACCAAGTAACCATTTCTCAGCTGC
 CATAATAATGCCTAGTGGCTTCCCCTCTGTCAAATCTAGTTTCTATGAAAAGAAGATG
 GCAGATACAGGAGAGACGACAGAGGGTCTAGGCTGGAATGTTCTTTTCAAAGCAATGC
 TTCTATCAAATACTAGTATTAATTTATGTATCTGGTTAATGACATACTTGGAGAGCAAAT
 TATGGAATGTGTATTTTATATGATTTTTGAGGTCTGTCTAAACCCTGTGTCCCTGAGG
 GATCTGTCTCACTGGCATCTTGTGAGGGCCTTGACATAGGAACTTTTGATAAGTATC
 TGCGGAAAAACAAACATGAATCCTGTGATATTGGGCTCTTCAGGAAGCATAAAGCAATTG
 TGAAATACAGTATACCGCAGTGGCTCTAGGTGGAGGAAAGGAGGAAAAAGTGCTTATTAT
 GTGCAACATTATGATTAATCTGATTATACACCATTTTGGAGCAGATCTTGAATGAATGA
 CATGACCTTTCCCTAGAGAATAAGGATGAAATAATCACTCATTCTATGAACAGTGACACT
 ACTTTCTATTCTTTAGCTGTACTGTAATTTCTTTGAGTTGATAGTTTTACAAATTCTTAA
 TAGGTTCAAAGCAATCTGGTCTGAATAACACTGGATTTGTTTCTGTGATCTCTGAGGTC
 TATTTTATGTTTTTGTCTACTTCTGTGGAAGTAGCTTTGAACTAGTTTTACTTTGAAC
 TTTACGCTGAAACATGCTAGTGATATCTAGAAAGGGCTAATTAGGTCTCATCCTTTAAT
 GCCCCTTAAATAAGTCTTGCTGATTTTCTGACAGGGAAGTCTCTCTATTACACTGGAGCT
 GTTTTATAGATAAGTCAATATTGTATCAGGCAAGATAAACCAATGTCTAACAGGCATTG
 CCAACCTCACTGACACAGGGTCATAGTGATAATAATATACTGTACTATATAATATATCA
 TCTTTAGAGGTATGATTTTTTTCATGAAAGATAAGCTTTTGGTAATATTCATTTTAAAGTG
 GACTTATTAATAATTGGATGCTAGAGAATCAAGTTTATTTTATGTATATATTTTTCTGATT
 ATAAGAGTAATATATGTTTCATTGTAAAAATTTTTAAACACAGAACTATATGCAAAGAA
 AAAATAAAAATTATCTATAATCTCAGAACCCAGAAATAGCCACTATTAACATTTCTACG
 TATTTTATTTTACATAGATCATATTGTATATAGTTAGTATCTTTATTAATTTTATTATG
 AAATTTTCTTTGTCTATTATTAGTCTTCAAAGCATGATTTTTAATAGTTGTTGAGTATT
 CCACCACAGGAATGTATCACAACCTTAACCGTTCCCGTTTGTAGACTAGTTTCTTATTAA
 TGTTGATGAATGTTGTTTTAAAAATAATTTTGTGCTACATTTACTTTAATTTCTTGACT
 GTAAAGAGAAGTAATTTTGTCTCCTTGATAAAGTATTATATTAATAATAATCTGCCTGCA
 ACTTTTTGCCTTCTTTTATAATC

Gene 54. >ENST00000302464 cDNA sequence

ATGGCGGCCAGCAGGAGGCTGATGAAGGAGCTTGAAGAAATCCGCAAATGTGGAATGGAA
 AACTTCCGTAAACATCCAGGTTGATGAAGCTAATTTATTGACTTGGCAAGGGCTTATTGTT
 CCTGACAACCCTCCGTATAATAAGGGGGCTTCAAGATCGAAATCAACTTTCCAGCAGAG
 TACCCATTCAAACACCGAGGATCACATTTAAACAAAGATCTATCACCCGAACATCGAC
 GAAAAGGGGCAGGTCTGTCTGCCAGTAATTAGTGCTGAAAACCTGGAAGCCAGCAACCAA
 ACCGACCAAGTAATCCAGTCCCTCATAGCACTGGTGAATGACCCGAGCCCGAGCACCCG
 CTTCCGGCTGACCTAGCTGAAGAATACTCTAACGACCGTAAAAAATTTCTGTAAGAATGCT
 GAAGAGTTTACAAAGAAATATGGGGAAAAGCGACCTGTGGACTAA

Gene 55. >ENST00000261575 cDNA sequence

TGTGTTTTTAGGAACTATCCCTTCGACATAGTGACATTGTTAAACCTTGTTCTATTCAAG
 GCCTCTGACACCAACAGAGAGATTTATGAAATCTCCATGCAGCTCATGCAGGCACCAAAG
 CTTTTTGTATACTCAAAGAAAGTCGCTGAGCAAAGACCGGGAAGTATTCTCTATGGAACA
 CACGGCCCGCTGCCACCCCTCTACAGCGTGTCACTTGCCCTCTTGTCTATGTGAGCTGGCC
 AGGATGTACCCTGAGCTCACACTCCCCCTCTTCTCAGGTAAGCCAGCGATTCCCCACAAC
 ACACCCCAACGGGCGCCAGATCATGCTTACCTACCTGCTGCCCTGGCTGCACAACATCGA
 GCTGGTGGACAGCAGGCTCCTCCTCCCGGGAGCCCCAGCAGCCAGAGGACGAAGTCAAG
 GACCGGGAAGGTGACGTGACTGCTTCTACGGGCTGAGAGGAAATGGCTGGGGCTCTCCA
 GAAGCCACGTCACTGGTCTGAAACAACCTCATGTACATGACGGCCAAGTATGGAGATGAA
 GTTCTTGGGCCAGAAATGGAAAATGCTTGGAATGCTTTAGCCAACAATGAGAAATGGAGC
 AACAACTGAGGATCACCTTGCAGTTCCTGATTAGCCTCTGTGGGGTCAAGCAGCGACACA

FIGURE 1 (CONT'D)

GTTCTCCTACCTATATTAAAAAGTGGCAATATACTTGTGCCGTAACAACACCATTCAA
 ACCATGGAAGAGCTTCTCTTTGAGCTGCAGCAGACAGAGCCCGTGAACCCCATCGTCCAG
 CATTGTGACAACCCGCCCTTCTACCGCTTACGGCCAGTAGCAAGGCTTCCGCAGCAGCC
 TCAGGAACCACCTCTAGCAGCAATACAGTGGTTGCTGGCCAGGAAAATTTCCAGATGCT
 GAGGAGAACAAGATATTGAAAGAATCTGATGAAAGGTTTAGTAATGTATCAGAGCCCAC
 ACTCGCCTCGAGTCAAGATACAGCAATAGCTCTGGAGGATCCTACGATGAAGATAAAAAT
 GATCCAATTTCTCCCTACACGGGCTGGTTGCTGACTATTACAGAGACCAAGCAGCCGCAG
 CCCTTACCGATGCCTTGTACTGGAGGATGCTGGGCCCCCTGGTTGACTATCTCCCGGAG
 ACCATCACTCCCCGGGGGCCACTCCACAGGTGCAATATTGCTGTAATTTTTATGACTGAA
 ATGGTGGTGGATCACAGTGTACGAGAAGACTGGGCGCTTCATCTACCATTATTACTTCAT
 GCTGTCTTCTTAGGTTTAGACCACTACCGGCCTGAAGTCTTTGAACACAGCAAAAACTG
 CTTCTTACCTCTTGATTGCCCTCTCTTGCAACAGCAATTTCCATTCCATTGCTTCCGTG
 CTCCTGCAGACCCGAGAGATGGGTGAAGCTAAGACTCTAACCGTGCAGCCAGCCTACCAA
 CCTGAATATCTCTATACAGGTGGCTTTGACTTCCTGAGAGAGGACCAGTCATCCCCGGTG
 CCTGACTCAGGGCTTAGTTCAAGCTCCACCTCCTCTAGCATCAGTCTGGGAGGCAGCAGT
 GGAAACCTCCACAGATGACCCAGGAGGTAGAAGATGTGGACACAGCTGCTGAAACAGAT
 GAGAAGGCAACAAGCTCATTGAGTTTCTCACGACCAGGGCATTGGTCCACTTTGGTGC
 CATGAAGACATCACACCTAAAAATCAAATTCAAAGAGTGCTGAACAGCTCACTAATTTT
 CTACGTACGTTGTATCTGTATTTAAAGATTCAAATCAGGCTTCCATCTGGAGCACAG
 TTGAGTGAAGTTGCATTGCAGACAGCCCTCGCAAGCTCTTCAAGGCACTATGCTGGTCGG
 TCCTTCCAGATATTCGGGGCCCTCAAGCAACCTCTGTGCAGCATGCCTTATCTGACCTT
 CTCTCAAGATTGGTGGAGGTGATAGGAGAACATGGAGATGAGATTGAGGGTTATGTAATG
 GAAGCGCTCCTAACCTTGGAGGCGGCTGTGGATAACTTGTCTGACTGCTTGAAGAACAGT
 GACCTCCTAACTGTATTGTCCCCTCTTCTCACCAGATTTAAGCTCCAGCAGTAAACTA
 ACAGCAAGCAGAAAGAGCACAGGACAACATAAAGCATGAACCCGGGAACACCAGCGGCAAC
 ACCGCAACTGCCGAACGGAGCCGGCATCAACGAAGCTTCTCTGTGCCAAGAAGTTTGGT
 GTCATCGACCGATCCTCTGACCCACCTCGAAGTGCCACACTGGACAGAATTGAGGCTTGT
 ACCCAACAAGGCCTCTCCTCAAAAACCGAAGCTCATCCTCCTTGAAGGACAGTCTCACG
 GACCCATCCACATAAACCATCCACCAACCTGCTGGCCACCATATTCTGGGTACAGTG
 GCCTTGATGGAGTCTGATTTTGAAGTTTGAATACTTAATGGCCTTAAGGCTGTTGAGCAGA
 CTACTGGCACATATGCCACTCGATAAGGCTGAGAACCGAGAAAAGCTTGAGAACTCCAG
 GCACAGCTGAAGTGGGCCGACTTCTCCGGGCTGCAGCAGCTGCTGCTGAAAGGATTACA
 TCCCTCACCACCACAGACCTGACCTGCAGCTCTTCAGTCTGCTGACACCAGTGTCCAAA
 ATATCCATGGTGGATGCATCCCACGCTATTGGGTTTTCCACTGAATGTCTTGTGTCTCCTG
 CCTCAGCTGATTTCAGCATTTTGAAGTCCCAATCAGTTCTGTAAGGATATAGCCGAAAGG
 ATTGCTCAGGTTTGTGTTAGAAGAGAAGAACCCCAACTTTCAAATCTTGACATGTCATG
 ACTCTTTATAAAACGCACAGCTACACGAGGGACTGTGCCACGTGGGTCAATGTGGTCTGT
 CGATACCTTCATGAAGCATATGCTGACATTACCTTGAATATGGTTACCTACCTGGCAGAG
 CTGCTGGAGAAGGGCCTCCCTAGTGTGCAGCAGCCCCTGCTCCAGGTGATCTACAGTCTT
 CTCAGCTACATGGACCTTTCTGTGTTTCTGTCAAACAGTTCAATGTGGAAGTTCTGAAG
 ACAATTGAAAAATATGTGCAAAGTGTTCACTGGAGAGAAGCTCTGAATATCTTGAAGCTG
 GTAGTTTCTCGGTGAGCCAGCCTTGTTTTACCTTCATACCAGCACAGTGACCTCTCAAAA
 ATAGAAATACATCGAGTGTGGACTAGTGCTTCCAAGGAATTACCTGGGAAAACCTGGAC
 TTCCACTTCGATATTTTCGGAGACTCCAATCATCGGGAGGCGGTATGATGAGCTGCAGAAT
 TCTTCTGGGCGTGATGGGAAGCCCAGGGCCATGGCCGTCAACCGAGCACATCTTCCACT
 TCCTCAGGCTCCAACCTCAACGTCCTTGTTCAGTGAGCTGGAAAAGGCCCCAGTATTCT
 CAGAAGAGAACAAGAGAAGTTGGTACATGTCCTTTCTCTGTGTGGCCAAGAAGTAGGA
 TTGAGCAAAAATCCATCAGTGATTTTTTCATCGTGTGGGGATCTGGATCTGCTTGAGCAC
 CAGACAAGCTTGGTATCTTCTGAGGACGGTGCCCCGAGAGCAGGAGAACATGGATGACACA
 AACAGCGAGCAGCAGTTTAGAGTCTTCAGAGACTTCGACTTCCTAGATGTGGAGCTGGAG
 GATGGAGAGGGTGAGAGTATGGACAATTTCAACTGGGGAGTGCGCAGACGTTCTCTGGAC
 AGCCTGGATAAGTGTGATATGCAGATTCTGGAGGAGCGCAACTGTGAGGAAGCACTCCT
 AGCCTGAATAAAATGCACCATGAGGACTCCGATGAATCATCCGAGGAGGAGGACCTCACA
 GCCAGCCAGATCCTGGAGCACTCAGACCTAATCATGACTCTCTCCCCCTCTGAAGAGACG

FIGURE 1 (CONT'D)

AATCCCATGGAGCTGCTCACCACAGCCTGTGACTCGACCCCTGCAGAACCTCATTCCCTTT
AACACCAGAATGTCCAGCTTTGATGCTTCCTTGCCTGATATGAATAATCTGCAGATTTCT
GAGGGTTCAAAGGCTGAAGCTGTTCTGTGAGGAGGAGGACACCACCGTGCATGAGGATGAT
CTTTCTAGTTCCATCAATGAACTCCAGCAGCTTTTGAATGCAGCGACAGCTTTAGCCTG
GACATGACTGAGGGGAAGAAAAAGGCAATCGGGCACTGGACCAGTTTACCCTGGCGAGC
TTTGAGAGAAGGTGACAGGGGAGTCTCTCCCCCTCCCTCGCCCTTCTTCTCAGCCATCCTT
GCCGCCTTTCAGCCCGCAGCCTGTGACGATGCCGAGGAGGCTGGCGCAGCCACATCAAC
CAGCTTATGTGTGACTCAGATGGCTCCTGTGCTGTGTATACATTTTATGTGTTCTCCTCC
TTGTTTAAAGAATATTAGAAAAGGTTCTGCTTCCTAACCTGTGATGCAGCCAGTTACCTT
GGAGATAACCTCCGGGGAATCGGATCCAAATTTGTGAGCTCTTCCAGATGCTCACCTCC
TGCTCTGAATGTCTACACTTTTTTGTGGATGCCGAGACTCTCCTTTTATGTGGACTTCTG
GACAAGCTCAAGTTAGTGTGTTAGAACTGCAAGAATATTTGGATACCTACAACAACAGG
AAAGAGGCCACACTCTCTTGGCTTGCAAATTGTAAGGCAACATTTGCAGGGGGATCAAGA
GATGGAGTAATTACCTGTCAACCAGGGGACTCCGAAGAAAAGCAATTGGAAGTGTGTGAG
AGATTATATAAGCTACACTTCCAGCTGCTATTGCTTTTTTCACTCCTACTGTAAGCTCATC
GGCCAGGTGCACGAAGTTAGCTCCATGCCAGAGCTGCTGAATATGTCCAGGGAACTGAGT
GACCTAAAGAAACACCTGAAGGAAGCCAGTGCAGTCATTGCAGCTGACCCTCTCTATTCA
GACGGCGCGTGGTCCGAGCCACCTTCACGTCCACTGAAGCAGCCATCCAGTCCATGCTG
GAGTGCCTGAAGAACAACGAAGCTCGGCAAAGCTTTGCGGCAGATCAGGGAGTGCAGAAGT
CTGTGGCCCAATGACATCTTTGGAAGCAGTTCTGATGATGAGGTCCAGACACTACTGAAT
ATTTATTTCCGTACCAAACCTCTGGGACAGACGGGTACTTATGCCCTGGTGGGGTCTAAC
CAGAGCCTGACCGAGATCTGCACCAAGCTGATGGAGCTGAACATGGAGATCCGGGACATG
ATCCGCAGGGCCAGAGTTACCGAGTCCTCACTACTTTTCTTCCAGACTCCAGTGTCTCT
GGCACTAGTCTCTGACAGGAGCCTCCTGTCCCCACTGGGTTCCAAACTGGCAGTGTGCC
ATGCTGGGGCAACGTCAATTCACTGTCTTCTCGGCCTTCAAAGGCTTGGACAGACTGTTT
TCCCTCTTGTTACCTGTAGGGCTTTTTTCTAAAGAGGATGGCAGAACTTCCAACGTGTAGC
AATACTATAAGAACCAAGGTAGCTTAGAACGTCTGGACAGACTCCACTCATCATGCTGT
GTGGCACAATGTGTTACATTTGACCGAGCATATGCAACTCGCTACTGAAGAAGTGAAGT
CCGTTGCATACCAAAGCCGACTACACTGAACAGTACCTTCTTTCTAGAAACAATTTTAG
ATTGGCAAAAGTGCAATGTTTTCTTCACTCAAAAAATTTTATATTCTCAACATGTATAT
TCTTTCCCTGTCTTGTTCCATTTTCTTTTCTTTTTTCTTTTTTCTTTTTTCTTTTCTTTCTG
TGGGCTGAGAAAGGGGAGGCAAAATGAAGCTGGCCACTGAAAAGTGAAGATGGTCAAA
AGCTGACAGCCTGTGTATGTGAAAAGGGAATTGTAAATGGACTGCAATGTAATGTACACT
GTAATTTGAATACAATTACTGTATCTAAAAGGAGCTGCTATGAAGTACCTTTCTTATGTT
GCTAGGCTACTGTTTCTGAAAGCCCTGGATCTCTTTCACCAAAAATGGTCCAGATAGAC
TCTTTTTAAGGATCTTGGCTGCTTTTTTACTAGAAGGTTGCTTTTATGAGCATATTTATAC
TGCTGAAGGATGAGTGTAAATTTAATTAACCTTTGCCGTTTTGTAGAGAAAAGTATTCAC
AAGATAAATTCGAAGTCTTTTACCTGTGAGGCATGCATATTTTAAATATCTGTTTGGATA
GTCAGAAGTAGAATCATAAAGGTAAAATATGAGTTGTTACTTTGTTTCTTCGATGTCATA
TTTTATGTGTAATATATATGTAAAGGGCCATTCTTAAGTTCTCTCCTTAACTTAATGCT
GTCAAGTGTGATGTGTGCATGTGAACTTGTGCACTGCAGAAACATATTAGAGTTTA
TCTATGTAAGTTATTCACTCTGTAAATACATTTAAAGTTTTTGTGATGTAAGCTTAATTG
ATATTCTGTTTCAAGCTTTCTTTAGACTAAAAAAGACAAA

Gene 56. >ENST0000267071 cDNA sequence

GTGGCGCAGCTTCTGAACTAGGCGGCAGAGGCGGAGCCGCTGTGGCACTGCTGCGCCT
CTGCTGCGCCTCGGGTGTCTTTTGCAGCGGTGGGTGCGCGCCGGGAGAAGCGTGAGGGGA
CAGATTTGTGACCGGCGCGGTTTTTGTGAGCTTACTCCGGCCAAAAAGAACTGCACCTC
TGGAGCGGACTTATTTACCAAGCATTGGAGGAATATCGTAGGTAAAAATGCCTATTGGAT
CCAAAGAGAGGCCAACATTTTTTGAATTTTAAAGACACGCTGCAACAAAGCAGATTTAG
GACCAATAAGTCTTAATTGGTTTGAAGAACTTTCTTCAAGCTCCACCCTATAATTCTG
AACCTGCAGAAGAATCTGAACATAAAAAACAATTACGAACCAAACCTATTTAAAGCTC
CACAAAGGAAACCATCTTATAATCAGCTGGCTTCACTCCAATAATATTCAAAGAGCAAG
GGCTGACTCTGCCGCTGTACCAATCTCCTGTAAAAGAATTAGATAAATTCAAATTAGACT
TAGGAAGGAATGTTCCCAATAGTAGACATAAAAGTCTTCGCACAGTGAAAAGTAAATGG

FIGURE 1 (CONT'D)

ATCAAGCAGATGATGTTTTCTGTCCACTTCTAAATTCTTGTCTTAGTGAAAGTCCTGTTG
TTCTACAATGTACACATGTAAACACCACAAAGAGATAAGTCAGTGGTATGTGGGAGTTTGT
TTCATACACCAAAGTTTGTGAAGGGTCGTGAGACACCAAACATATTTCTGAAAGTCTAG
GAGCTGAGGTGGATCCTGATATGTCTTGGTCAAGTTCCTTAGCTACACCACCCACCCTTA
GTTCTACTGTGCTCATAGTCAGAAATGAAGAAGCATCTGAAACTGTATTTCTCATGATA
CTACTGCTAATGTGAAAAGCTATTTTTCCAATCATGATGAAAGTCTGAAGAAAAATGATA
GATTTATCGCTTCTGTGACAGACAGTGAAAAACAAATCAAAGAGAAGCTGCAAGTCATG
GATTTGGAAAAACATCAGGGAATTCATTTAAAGTAAATAGCTGCAAAGACCACATTGGAA
AGTCAATGCCAAATGTCTAGAAAGATGAAGTATATGAAACAGTTGTAGATACCTCTGAAG
AAGATAGTTTTTTCATTATGTTTTTCTAAATGTAGAACAAAAAATCTACAAAAAGTAAGAA
CTAGCAAGACTAGGAAAAAATTTTCCATGAAGCAAACGCTGATGAATGTGAAAAATCTA
AAAACCAAGTGAAAGAAAAATACTCATTTGTATCTGAAGTGGAACCAAATGATACTGATC
CATTAGATTCAAATGTAGCAAATCAGAAGCCCTTTGAGAGTGGAAGTGACAAAATCTCCA
AGGAAGTTGTACCGTCTTTGGCCTGTGAATGGTCTCAACTAACCTTTTCAGGTCTAAATG
GAGCCCAGATGGAGAAAAATACCCCTATTGCATATTTCTTCATGTGACCAAATATTTTCAG
AAAAAGACCTATTAGACACAGAGAACAAAGAAAGAAAGATTTTCTTACTTCAGAGAATT
CTTTGCCACGTATTTCTAGCCTACCAAATCAGAGAAGCCATTAAATGAGGAAACAGTGG
TAAATAAGAGAGATGAAGAGCAGCATCTTGAATCTCATACAGACTGCATTCTTGCAAGTAA
AGCAGGCAATATCTGGAACCTTCTCCAGTGGCTTCTTCATTTTCAGGGTATCAAAAAGTCTA
TATTCAGAATAAGAGAATCACCTAAAGAGACTTTCAATGCAAGTTTTTTCAGGTCTATATGA
CTGATCCAAACTTTAAAAAAGAAACTGAAGCCTCTGAAAGTGGAAGTGGAAATACATACTG
TTTGCTCACAGAAGGAGGACTCCTTATGTCCAAATTTAATTGATAATGGAAGCTGGCCAG
CCACCACCACACAGAATTCTGTAGCTTTGAAGAATGCAGGTTTAATATCCACTTTGAAAA
AGAAAACAAATAAGTTTTATTTATGCTATACATGATGAAACATCTTATAAAGGAAAAAAA
TACCGAAAGACCAAATCAGAACTAATTAAGTGTTCAGCCAGTTTGAAGCAAATGCTT
TTGAAGCACCCTTACATTTGCAAATGCTGATTTCAGGTTTATTGCATTCTTCTGTGAAAA
GAAGCTGTTTCACAGAATGATTCTGAAGAACCAACTTTGTCTTAACTAGCTCTTTTGGGA
CAATTCTGAGGAAATGTTCTAGAAATGAAACATGTTCTAATAATACAGTAATCTCTCAGG
ATCTTGATTATAAAGAAGCAAATGTAATAAGGAAAAACTACAGTTATTTATTACCCAG
AAGCTGATTCTCTGTGCATGCCTGCAGGAAGGACAGTGTGAAAATGATCCAAAAAGCAAAA
AAGTTTCAGATATAAAGAAGAGGTCTTGGCTGCAGCATGTCAACCAGTACAACATTCAA
AAGTGGAATACAGTGATACTGACTTTCAATCCCAGAAAAGTCTTTTATATGATCATGAAA
ATGCCAGCACTCTTATTTTAACTCCTACTTCCAAGGATGTTCTGTCAAACCTAGTCATGA
TTTCTAGAGGCAAAGAATCATACAAAATGTGAGCAAGCTCAAAGGTAACAATTATGAAT
CTGATGTTGAATTAACCAAATATTTCCCATGGAAAAGAATCAAGATGTATGTGCTTTAA
ATGAAAATTATAAAAACGTTGAGCTGTTGCCACCTGAAAAATACATGAGAGTAGCATCAC
CTTCAAGAAAGGTACAATTCAACCAAAACACAAATCTAAGAGTAATCCAAAAAATCAAG
AAGAACTACTTCAATTTCAAAAATAACTGTCAATCCAGACTCTGAAGAACTTTTCTCAG
ACAATGAGAATAATTTTGTCTTCCAAGTAGCTAATGAAAGGAATAATCTTGCTTTAGGAA
ATACTAAGGAACCTTCATGAAACAGACTTGACTTGTGTAAACGAACCCATTTTCAAGAACT
CTACCATGGTTTTATATGGAGACACAGGTGATAAAACAAGCAACCCCAAGTGTCAATTAATA
AAGATTTGGTTTTATGTTCTTGCAGAGGAGAAACAAAAATAGTGTAAGCAGCATATAAAAA
TGACTCTAGGTCAAGATTTAAAAATCGGACATCTCCTTGAATATAGATAAAAATACCAGAAA
AAAATAATGATTACATGAACAAATGGGCAGGACTCTTAGGTCCAATTTCAAATCACAGTT
TTGGAGGTAGCTTCAGAACAGCTTCAAATAAGGAAATCAAGCTCTCTGAACATAACATTA
AGAAGAGCAAAATGTTCTTCAAAGATATTGAAGAACAATATCCTACTAGTTTAGCTTGTG
TTGAAATTGTAAATACCTTGGCATTAGATAATCAAAAGAACTGAGCAAGCCTCAGTCAA
TTAATACTGTATCTGCACATTTACAGAGTAGTGTAGTTGTTTCTGATTGTAAAAATAGTC
ATATAACCCCTCAGATGTTATTTTCCAAGCAGGATTTTAATTCAAACCATAATTTAACAC
CTAGCCAAAAGGCAGAAATTACAGAACTTTCTACTATATTAGAAGAATCAGGAAGTCAGT
TTGAATTTACTCAGTTTAGAAAAACCAAGCTACATATTGCAGAAGAGTACATTTGAAGTGC
CTGAAAACCAGATGACTATCTTAAAGACCCTTCTGAGGAATGCAGAGATGCTGATCTTC
ATGTCATAATGAATGCCCCATCGATTGGTCAGGTAGACAGCAGCAAGCAATTTGAAGGTA
CAGTTGAAATTAACCGGAAGTTTGCTGGCCTGTTGAAAAATGACTGTAACAAAAGTGCTT

FIGURE 1 (CONT'D)

CTGGTTATTTAACAGATGAAAATGAAGTGGGGTTTAGGGGCTTTTATTCTGCTCATGGCA
 CAAAACCTGAATGTTTCTACTGAAGCTCTGCAAAAAGCTGTGAACTGTTTAGTGATATTG
 AGAATATTAGTGAGGAACTTCTGCAGAGGTACATCCAATAAGTTTATCTTCAAGTAAAT
 GTCATGATTCTGTTGTTTCAATGTTTAAAGATAGAAAATCATAATGATAAACTGTAAGTG
 AAAAAATAATAAATGCCAACTGATATTACAAAATAATATTGAAATGACTACTGGCACTT
 TTGTTGAAGAAATTACTGAAAATTACAAGAGAAATACTGAAAATGAAGATAACAAATATA
 CTGCTGCCAGTAGAAATTCTCATAACTTAGAATTTGATGGCAGTGATTCAAGTAAAAATG
 ATACTGTTTGTATTCTATAAGATGAAACGGACTTGCTATTTACTGATCAGCACAACATAT
 GTCTTAAATTATCTGGCCAGTTTATGAAGGAGGGAAACACTCAGATTAAAGAAGATTTGT
 CAGATTTAACTTTTTTGGAGTTGCGAAAGCTCAAGAAGCATGTGATGGTAATACTTCAA
 ATAAAGAACAGTTAACTGCTACTAAAACGGAGCAAAATATAAAAGATTTTTGAGACTTCTG
 ATACATTTTTTTCAGACTGCAAGTGGGAAAAATATTAGTGTGCGCAAAGAGTCATTTAATA
 AAATTGTAAATTTCTTTGATCAGAAACCAGAAGAATTGCATAACTTTTCTTAAATTCTG
 AATTACATTCTGACATAAGAAAGAACAAAATGGACATTCTAAGTTATGAGGAAACAGACA
 TAGTTAAACACAAAATACTGAAAGAAAGTGTCCCAGTTGGTACTGGAAATCAACTAGTGA
 CCTTCCAGGGACAACCCGAACGTGATGAAAAGATCAAAGAACCTACTCTATTGGGTTTTTC
 ATACAGCTAGCGGGAAAAAGTTAAAATTGCAAAGGAATCTTTGGACAAAGTGAAAAACC
 TTTTTGATGAAAAAGAGCAAGGTACTAGTGAAATCACCAGTTTTAGCCATCAATGGGCAA
 AGACCCTAAAGTACAGAGAGGCCTGTAAAGACCTTGAATTAGCATGTGAGACCATTGAGA
 TCACAGCTGCCCCAAAGTGTAAGAAATGCAGAATTCTCTCAATAATGATAAAAACTTG
 TTTCTATTGAGACTGTGGTGCCACCTAAGCTCTTAAGTGATAATTTATGTAGACAACTG
 AAAATCTCAAAACATCAAAAAGTATCTTTTTGAAAGTTAAAGTACATGAAAATGTAGAAA
 AAGAAACAGCAAAAAGTCTGCAACTTGTTACACAAATCAGTCCCCTTATTCAAGTCATTG
 AAAATTCAAGCCTTAGCTTTTTACACAAGTTGTAGTAGAAAACTTCTGTGAGTCAGACTT
 CATTACTTGAAGCAAAAAATGGCTTAGAGAAGGAATATTTGATGGTCAACCAGAAAGAA
 TAAATACTGCAGATTATGTAGGAAATTATTTGTATGAAAATAATTCAAACAGTACTATAG
 CTGAAAATGACAAAAATCATCTCTCCGAAAAACAAGATACTTATTTAAGTAAACAGTAGCA
 TGTCTAACAGCTATTCTACCATTCTGATGAGGTATATAATGATTCAAGGATATCTCTCAA
 AAAATAAACTTGATTCTGGTATTGAGCCAGTATTGAAGAATGTTGAAGATCAAAAAACA
 CTAGTTTTTCCAAAGTAATATCCAATGTAAAAGATGCAAAATGCATACCCACAACTGTAA
 ATGAAGATATTTGCGTTGAGGAACTTGTGACTAGCTCTTCACCCTGCAAAAATAAAAATG
 CAGCCATTAAATTGTCCATATCTAATAGTAATAATTTTGGAGGTAGGGCCACCTGCATTTA
 GGATAGCCAGTGGTAAATCGTTTTGTGTTTACATGAAACAATTAAAAAAGTGAAAGACA
 TATTTACAGACAGTTTTCAGTAAAGTAATTAAGGAAAAACAACGAGAATAAATCAAAAATTT
 GCCAAACGAAAATTATGGCAGGTGTTACGAGGCATTGGATGATTCAAGAGGATATTCTTC
 ATAACCTCTCTAGATAATGATGAATGTAGCACGCATTACATAAGGTTTTTGTGACATTTC
 AGAGTGAAAGAAATTTTACAACATAACCAAAATATGTCTGGATTGGAGAAAGTTTCTAAAA
 TATCACCTTGTGATGTTAGTTTGGAACTTCAGATATATGTAAATGTAGTATAGGGAAGC
 TTCATAAGTCAGTCTCATCTGCAAATACTTGTGGGATTTTTAGCACAGCAAGTGGAAAAT
 CTGTCCAGGTATCAGATGCTTCATTACAAAACGCAAGACAAGTGTCTTCTGAAATAGAAG
 ATAGTACCAAGCAAGTCTTTTCCAAAGTATTGTTTAAAAGTAACGAACATTCAAGACCAGC
 TCACAAGAGAAGAAAATACTGCTATACGTACTCCAGAACATTTAATATCCCAAAAAGGCT
 TTTTCATATAATGTGGTAAATTCATCTGCTTTCTCTGGATTTAGTACAGCAAGTGGAAAGC
 AAGTTTCCATTTTAGAAAGTTTCTTACACAAAGTTAAGGGAGTGTTAGAGGAATTTGATT
 TAATCAGAACTGAGCATAGTCTTCACTATTACCTACGTCTAGACAAAATGTATCAAAAA
 TACTTCTCGTGTGATAAGAGAAAACCCAGAGCACTGTGTAACTCAGAAATGGAAAAAA
 CCTGCAGTAAAGAATTTAAATTATCAAATAACTTAAATGTTGAAGGTGGTTCTTCAGAAA
 ATAATCACTCTATTAAAGTTTCTCCATATCTCTCTCAATTTCAACAAGACAAAACAACAGT
 TGGTATTAGGAACCAAAGTGCACTTGTTGAGAACATTGATGTTTTGGGAAAAGAACAGG
 CTTACCTAAAAACGTAAAAATGGAAATTGGTAAAACTGAACTTTTTCTGATGTTCTCTG
 TGAACCAAAATATAGAAGTTTGTCTACTTACTCCAAAGATTGAGAAACTACTTTGAAA
 CAGAAGCAGTAGAAATTGCTAAAGCTTTTATGGAAGATGATGAACTGACAGATTCTAAAC
 TGCCAAGTCATGCCACACATTCTCTTTTACATGTCCCAGAAATGAGGAAATGGTTTTGT
 CAAATTCAAGAATTGGAAAAAGAAGAGGAGAGCCCTTATCTTAGTGGGAGAACCTCAA

FIGURE 1 (CONT'D)

TCAAAAGAACTTATTAAATGAATTTGACAGGATAATAGAAAATCAAGAAAAATCCTTAA
 AGGCTTCAAAAAGCACTCCAGATGGCACAATAAAAGATCGAAGATTGTTTATGCATCATG
 TTTCTTTAGAGCCGATTACCTGTGTACCTTTTCGCACAACCTAAGGAACGTCAAGAGATAC
 AGAATCCAAATTTTACCGCACCTGGTCAAGAATTTCTGTCTAAATCTCATTTGTATGAAC
 ATCTGACTTTGGAAAAATCTTCAAGCAATTTAGCAGTTTCAGGACATCCATTTTATCAAG
 TTTCTGCTACAAGAAATGAAAAAATGAGACACTTGATTACTACAGGCAGACCAACCAAAG
 TCTTTGTTCCACCTTTTAAAACTAAATCACATTTTCACAGAGTTGAACAGTGTGTTAGGA
 ATATTAACTTTGGAGGAAAACAGACAAAAGCAAAACATTGATGGACATGGCTCTGATGATA
 GTAAAAATAAGATTAATGACAATGAGATTTCATCAGTTTAACAAAAACAACCTCAATCAAG
 CAGTAGCTGTAACTTTCACAAAGTGTGAAGAAGAACCTTTAGATTTAATTACAAGTCTTC
 AGAATGCCAGAGATATACAGGATATGCGAATTAAGAAGAAACAAAGGCAACGCGTCTTTC
 CACAGCCAGGCAGTCTGTATCTTGCAAAAACATCCACTCTGCCTCGAATCTCTCTGAAAG
 CAGCAGTAGGAGGCCAAGTTCCCTCTGCGTGTCTCATAAACAGCTGTATACGTATGGCG
 TTTCTAAACATTGCATAAAAAATTAACAGCAAAAATGCAGAGTCTTTTCAGTTTCACACTG
 AAGATTATTTTGGTAAGGAAAGTTTATGGACTGGAAAAGGAATACAGTTGGCTGATGGTG
 GATGGCTCATACCTCCAATGATGGAAAGGCTGGAAAAGAAGAATTTTATAGGGCTCTGT
 GTGACACTCCAGGTGTGGATCCAAAGCTTATTTCTAGAATTTGGGTTTATAATCACTATA
 GATGGATCATATGGAACTGGCAGCTATGGAATGTGCCTTTCTAAGGAATTTGCTAATA
 GATGCCTAAGCCCAGAAAGGGTGCTTCTTCAACTAAAATACAGGCAATATGATACGGAAA
 TTGATAGAAGCAGAAGATCGGCTATAAAAAAGATAATGGAAAGGGATGACACAGCTGCAA
 AAACACTTGTTCTCTGTGTTTCTGACATAATTTTCATTGAGCGCAAATATATCTGAAACTT
 CTAGCAATAAAACTAGTAGTGCAGATACCCAAAAAGTGGCCATTATTGAACTTACAGATG
 GGTGGTATGCTGTTAAGGCCAGTTAGATCCTCCCTCTTAGCTGTCTTAAAGAATGGCA
 GACTGACAGTTGGTCAGAAGATTATTCTTCATGGAGCAGAACTGGTGGGCTCTCCTGATG
 CCTGTACACCTCTTGAAGCCCCAGAATCTCTTATGTTAAAGATTTCTGCTAACAGTACTC
 GGCCTGCTCGCTGGTATACCAAACCTTGGATTCTTTCTGACCTAGACCTTTTCTCTGC
 CCTTATCATCGCTTTTTCAGTGATGGAGGAAATGTTGGTTGTGTTGATGTAATTATTCAA
 GAGCATACCTTATACAGTGGATGGAGAAGACATCATCTGGATTATACATATTTTCGCAATG
 AAAGAGAGGAAGAAAAGGAAGCAGCAAAATATGTGGAGGCCCAACAAAAGAGACTAGAAG
 CCTTATTTCACTAAAATTTCAGGAGGAATTTGAAGAACATGAAGAAAAACAACAAAACCAT
 ATTTACCATCACGTGCACTAACAAGACAGCAAGTTTCGTGCTTTGCAAGATGGTGCAGAGC
 TTTATGAAGCAGTGAAGAATGCAGCAGACCCAGCTTACCTTGAGGGTTATTTTCAGTGAAG
 AGCAGTTAAGAGCCTTGAATAATCACAGGCAAAATGTTGAATGATAAGAAACAAGCTCAGA
 TCCAGTTGGAAATTAGGAAGGCCATGGAATCTGCTGAACAAAAGGAACAAGGTTTATCAA
 GGGATGTCAACCGTGTGGAAGTTGCGTATTGTAAGCTATTCAAAAAAGAAAAAGATT
 CAGTTATACTGAGTATTTGGCGTCCATCATCAGATTTATATTCTCTGTTAACAGAAGGAA
 AGAGATACAGAATTTATCATCTTGCAACTTCAAAATCTAAAAGTAAATCTGAAAGAGCTA
 ACATACAGTTAGCAGCGCAAAAAAACTCAGTATCAACAACTACCGGTTTCAGATGAAA
 TTTTATTTTCAGATTTACCAGCCACGGGAGCCCCCTTCACTTCAGCAAATTTTATAGATCCAG
 ACTTTCAGCCATCTTGTTCTGAGGTGGACCTAATAGGATTTGTGCTTTCTGTTGTGAAAA
 AAACAGGACTTGCCCCCTTTCGTCTATTTGTGACAGCAATGTTACAATTTACTGGCAATAA
 AGTTTTGGATAGACCTTAATGAGGACATTATTAAGCCTCATATGTTAATTGCTGCAAGCA
 ACCTCCAGTGGCGACAGCAATCCAAATCAGGCCTTCTTACTTTATTTGCTGGAGATTTTT
 CTGTGTTTTCTGCTAGTCCAAAAGAGGGCCACTTTCAAGAGACATTCAACAAAATGAAAA
 ATACTGTTGAGAATATTGACATACTTTGCAATGAAGCAGAAAAACAAGCTTATGCATATAC
 TGCATGCAATGATCCCAAGTGGTCCACCCCACTAAAGACTGTACTTCAGGGCCGTACA
 CTGCTCAAATCATTCCTGGTACAGGAAACAAGCTTCTGATGTCTTCTCCTAATTGTGAGA
 TATATTATCAAAGTCTTTTATCACTTTGTATGGCCAAAAGGAAGTCTGTTTCCACACCTG
 TCTCAGCCCAGATGACTTCAAAGTCTTGTAAAGGGGAGAAAGAGATTGATGACCAAAAGA
 ACTGCAAAAAGAGAAGAGCCTTGGATTTCTTGAGTAGACTGCCTTTACCTCCACCTGTTA
 GTCCCATTTGTACATTTGTTTCTCCGGCTGCACAGAAGGCATTTTCAGCCACCAAGGAGTT
 GTGGCACCAAAATACGAAACACCCATAAAGAAAAAAGAACTGAATTCTCCTCAGATGACTC
 CATTTAAAAAATTCAATGAAATTTCTCTTTTGGAAAGTAATTCAATAGCTGACGAAGAAC
 TTGCATTGATAAATACCCAAGCTCTTTTGTCTGGTTCAACAGGAGAAAAACAATTTATAT

FIGURE 1 (CONT'D)

CTGTCAGTGAATCCACTAGGACTGCTCCCACCAGTTCAGAAGATTATCTCAGACTGAAAC
GACGTTGTACTACATCTCTGATCAAAGAACAGGAGAGTTCCCAGGCCAGTACGGAAGAAT
GTGAGAAAAATAAGCAGGACACAATTACAATAAAAAATATATCTAAGCATTGCAAAGG
CGACAATAAATTATTGACGCTTAACCTTTCCAGTTTATAAGACTGGAATATAAATTTCAA
CCACACATTAGTACTTATGTTGCACAATGAGAAAAGAAATTAGTTTCAAATTTACCTCAG
CGTTTGTGTATCGGGCAAAAATCGTTTTGCCCCGATTCCGTATTGGTATACTTTTGCTTCA
GTTGCATATCTTAAACTAAATGTAATTTATTAATAATCAAGAAAAACATCTTTGGCTG
AGCTCGGTGGCTCATGCCTGTAATCCCAACACTTTGAGAAGCTGAGGTGGGAGGAGTGCT
TGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGGGAGACCCCCATCTTTACAAAGA
AAAAAAAAGGGGAAAAGAAAATCTTTTAAATCTTTGGATTGATCACTACAAGTATTAT
TTTACAATCAACAAAATGGTCATCCAACTCAAACCTTGAGAAAATATCTTGCTTTCAAAT
TGGCACT

Gene 57. >ENST00000245361 cDNA sequence

ATGAGCGCGAGGCTGCCGGTGTGTCTCCACCTCGGTGGCCGCGGCTGTTGCTGCTGTGCG
CTGCTCCTGCTGGGGGCGGTTCTTGCCCCGCGCCGAGCGGCGCTTTCTACCTGCCCGGC
CTGGCGCCCGTCAACTTCTGCGACGAAGAAAAAAGAGCGACGAGTGCAAGGCCGAAATA
GAACTATTTGTGAACAGACTTGATTCACTGGAATCAGTTCTTCTTATGAATACACAGCG
TTTGATTTTTGCCAAGCATCAGAAGGAAAGCGCCCATCTGAAAATCTTGGTCAGGTACTA
TTCGGGGAAAGAATTGAACCTTCACCATATAAGTTTACGTTTAATAAGAAGGAGACCTGT
AAGCTTGTTTTGTACAAAACATACCATACAGAGAAAGCTGAAGACAAACAAAAGTTAGAA
TTCTTGAAAAAAGCATGTTATTGAATTATCAACATCACTGGATTGTGGATAATATGCCT
GTAACGTGGTGTTACGATGTTGAAGATGGTCAGAGGTTCTGTAATCCTGGATTTCTTATT
GGCTGTTACATTACAGATAAAGGCCATGCAAAAGATGCCTGTGTTATTAGTTTCAATTTT
CATGAAAGAGATACATTTTACATCTTCAACCATGTTGACATCAAAATATACTATCATGTT
GTTGAAACTGGGTCCATGGGAGCAAGATTAGTGGCTGCTAAACTTGAACCGAAAAGCTTC
AAACATACCCATATAGATAAAACCAGACTGCTCAGGGCCCCCATGGACATAAGTAACAAG
GCTTCTGGGGAGATAAAAATTGCCTATACTTACTCTGTTAGCTTCGAGGAAGATGATAAG
ATCAGATGGGCGTCTAGATGGGACTATATTCTGGAGTCTATGCCTCATACCCACATTTCAG
TGGTTTTAGCATTATGAATTCCTGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATG
ATTATGTTACGGACACTGCACAAAGATATTGCTAGATATAATCAGATGGACTCTACGGAA
GATGCCCAGGAAGAATTTGGCTGGAACTTGTTTCATGGTGATATATTCCGTCCTCCAAGA
AAAGGGATGCTGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTT
GTGACTCTATTTTTCGCTTGCTGGGATTTTTGTACCTGCCAACCGAGGAGCGCTGATG
ACGTGTGCTGTGGTCTGTGGGTGCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGA
TTCTATAAGTCTTTTGGAGGTGAGAAGTGGAAAAAATAATGTTTTATTAAACATCATTTCTT
TGTCCTGGGATTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGA
TCTTCAGCAGCTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATA
TCTGTGCCTCTGACGTTTATTGGTGCTACTTTGGTTTTAAGAAGAATGCCATTGAACAC
CCAGTTTCGAACCAATCAGATTCCACGTGAGATTCTTGAACAGTCGTTCTACACGAAGCCC
TTGCCTGGTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACCTTTTC
TTCATTCTGAATAGTATTTGGTCAACCAGATGTATTACATGTTTGGCTTCTTATTTCTG
GTGTTTATCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCAC
CTATGTGCAGAGGATTATCATTGGCAATGGCGTTCACTTCTTACGAGTGGCTTTACTGCA
GTTTATTTCTTAATCTATGCAGTACACTACTTCTTTTCAAACCTGCAGATCACGGGAACA
GCAAGCACAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTCTTTT
ACAGGAACAATTGGCTTCTTTGCATGCTTTTGGTTTGTACCAAAATATACAGTGTGGTG
AAGGTTGACTGA

Gene 58. >ENST00000332066 cDNA sequence

ATGCCTTGCCGTAGGAAAGTAATTAAGACAGAAAAGTTATCAAGGATTACACCAAAGAC
CATTTGCCAAGGACTATTTTTAAATTGTATCCTCAAGTGAGATTAGCATCTCAGCAAAC
TCAGCCATTGAACAGCAGAGAAACACTAAAATAAAACCTCGTTACCTTCTCCCTGGGAGA
ACCACTGTTAGCAAATATGAAATCATGGAACATCAGAAAAAGAGGAAAGAACAGATGCTT
CAACTTTCTCACAAAATGTCCATAACTGAAAATTGAGATGA

Gene 59. >ENST00000267052 cDNA sequence

FIGURE 1 (CONT'D)

GGTGTGACTGAAGAAATATCAAATGTTTTCTAGTAAGACAGCAACTCAGGACTCTAGGAT
GGAAGAAGGTGTCTGACCGTAAATTACACCTGCAGTGCAACCAGCAGACTAATGGGGATG
AGGTTCTGGTACAAGATGATGAACACCAGTATGTGAGACAATGACTTGGGAGCTGGAATC
AAGGACATGACCAAGAGCAGCAAGAACAAAAGGGAGACTGACACATTGATCACTTTCTCA
ACCTTTGATCTCTTGAGAGGATGGTTACATTTGAGTAAAGACAGGGGAGTTTGTTTTCA
GAATGACATACTAGTCTGCAGGATGAATTTATAACTGACATTGCACCTTGGACTGCAAC
TAGGACTTTCACTGGAATCAGAGAAAGAGTTTTGAAGAAAAGTGGGCATAGGCTCAGCAA
AACCAAAACAGAAGAGGAACAGAAAAAGAAAACAAAAGCAGAACAGTCAGAATAGAATCAT
GGAGGAAAAGTCAATTAGAATTCTTAAGTGATCTTACACCGGGAGATCAGGACCCATCTCA
GAGTGAAGAGGAAGACATTGAAAAGACCAGAAGAGAATCAGAATATCCCTTCATTGATGG
TCTACAAAATGAAGTCGGAGATTTTGTGACTGGATATAAAGAAAAAGATGGAAAAATAA
AGATCCTAAAGACAGTTTTCCAAAACGTTATGTCTATAGTTGAATTAGACAACACACCAAA
GAATTACCTCTCTAAGGAAGGTGATAACTTGTGTGTAAGTTTGTACTGAGGCCAAATGA
AATCTCCGTTACTTGTCCAATACTGACTCAAAACCTTTCTGTGTAACTGATGACTG
CTCTGGCATGAAGGTAGAAAAGCATATTAGAAATAGGCATACCATAGCATTAGACACCCA
GGACCTTTCTGCGGAACTTTCATGCTTATTTATGAAGAAGAGAGAAATAGTAGATAAAAA
TCTCTCACATGAACCCATTCTGTGCCATCAACATGGAATCAGAATGTGAGATAAAGTTTT
AAGAGAGGAACAAGTGATATACTAAATCAATCACTGGGCTTTTTTCAACAACCAATTT
ATCTGATGAAGATTTACAGCTGGGCTCTGACAGACAGCCCTATTTTGGTAGCTGGCCTGC
AGGACCTCATAAGTTTATATGTGAACAGAGACCAAGAAAGATAGAGCATGTAAGTTGGC
TGGTCTGACAGCAGGGGGCAATGGATTCAAATGATCTTCACTTCGGTGGCAGCATCAGA
ACCAGGAAACAATCCAGAAATATTGACAGACAACTACTGATAGGAAATGAAGATTTTTTC
ACCTCCACCTGAAACTATGGATTCAATCATAGAAACAAACCTCTTCAGAAGCTGCTTACC
TCAACCGGATATACCAAAGAATGCCTTAGAATCAACAAAAATAAGAAAAGGAGGAAGAA
AAGGATTTTCAATTTGGTACCAATTTTGAATTTATTAGGACAGAGTCGTATCGGTGTAAA
AGAAAGGGAGAAATGTGACCTGTAAACAAAAAACCATGGACTAAAAATTACTTTGGGAGA
AGAAAAAGATAGAATTTAGAAAAGGAACAGTGAAGAGGAGAATAAACAAAACTTATGAC
CTTTGATCATCATCCATTGTGGTTTTACCTTGATATTATCAAAGCTACCCCTTTAAATAT
TGATGGACAGCGTTATTCTCATTGCCTGTCAATTAACAGACTAAGGTGCTCTGCATCTTT
ATACAAAAATTATATTCTTTCTTTTGTGCTACATAATTTATCTAGTATTTGGAAGCCATC
TTTTACAAACAAGAACTGTTTTTGAATTTTGAATCTCAGACAAGAGTAGGTAATAAACT
AAATGATGCAGGGTTTTATTTCTCCAGAAATTTTACATAGTCATCCTGATACTTCGTGCTC
TTTGGGAGTCACTTCTGATTTTCACTTTTAAATGAAAGGTTTGATAGAAAGCTGAAAAG
ATGGGAAGAACCTAAGGAATTACCAGCTGAGGACAGCCAAGACTTAACAAGCACTGACTA
CCGTTCCCTTGAGCTACCATTATCACAAGGGTTTTGCCTTTCAATTAGTAAAGCTTTTTGG
ATCTCCAGGCGTTCCAATGGAATCCTTGTGCTGATGACTATGTGGTTCCCCTTGACTG
GAAGACACTAAAGATGATCTACTTGCAATGGAAGATGTGAGTGGAGAAAAGACAGAAGAA
GATTGGTTGAAAATGAAAATTCCTTGAACTTTGAGTTCTGCTGTCTTCATGGTACTGCT
GAAGATCATGATCACGGAGAAAAGTCAAGTGTGCTCAGTGCCAACCAAGGGATTCTTTCC
AGAGACGTACCCGTTGGATACCAAAATTAGTTTGGATAATCTGTTCAACCATTCTTGATA
AGTTATCTGAATAATAAAAAAACTCAACAGA

Gene 60. >ENST00000306588 cDNA sequence

ATGGAGGACAGTTTCTTTCAATCTTTTGGGAGGCTGAGCCTCCAGCCCCAGCAGCAGCAG
CAGCGGCAGCGGCCCGCCCCGCGCGCCCCGCGGGGACACCTCCTCGCCGCCACAGCTTT
AGGAAACACCTCTACCTCCTGCGAGGCCTCCCGGGCTCCGGGAAAACCTACACTGGCCAGA
CAATTGCAGCATGACTTTCCAGGGCCCTGATTTTTCAGCACGGATGATTTTTTCTTCAGG
GAAGATGGTGCCTATGAGTTCAATCCTGACTTCCTGGAGGAAGCTCATGAATGGAACCAA
AAAAGAGCAAGAAAAGCAATGAGGAATGGCATATCCCCATTATTATTGATAATACCAAC
CTCCACGCCTGGGAAATGAAGCCCTATGCAGTCATGGTATTTTCAGACCGAACAAAAGAAT
CTTTTCAGGCTGGAAATGGACATGGTAGTTTTTCAGGCCAGAAATGAAGAAACATTTCATGG
TGTCTCAAGAGAAAAAATCCACCGAATGAAAGAACGGTATGA

Gene 61. >ENST00000267044 cDNA sequence

ATGAGGAATGGCATATCCCCATTATTATTGATAATACCAACCTCCACGCCTGGGAAATG
AAGCCCTATGCAGTCATGGCACTTGAAAATAACTATGAAGTTATATTCCGAGAACCTGAC

FIGURE 1 (CONT'D)

ACTCGCTGGAAATTCAACGTTCAAGAGTTAGCAAGAAGAAACATTATGGTGTCTCAAGA
GAAAAAATCCACCGAATGAAAGAACGGTATGAACACGATGTTACTTTTACAGTGTGCTT
CATGCAGAAAAGCCAAGCAGAATGAACAGAAACCAGGACAGGAATAATGCATTGCCTTCC
AACAATGCCAGATACTGGAATTCCTACACAGAGTTTCCAAACCGGAGGGCCACGGTGGA
TTTACAAATGAGAGCTCCTATCACAGAAGGGGCGGTTGTCACCATGGATATTAG

Gene 62. >ENST00000325202 cDNA sequence

ATGGCTGACGGTAAGGCTGGGAAGGACTCCGGAAGGCCAAGACAAAGGCGGTTTCCCGC
TCGCAGAGAGCCGGCTTGCACTTCCAGAGGGCTGTATTATCAACACCTGAAATCTAGG
ACGACGGGTACAGACATGTGGGTGCAACTGCCGCTGTGTACAGCGCAGCCATCCTGGAG
TACCTCACCGCAGAGGGACTTGAAGTGGCAGGAAATGCATCAAAGACTTAAAGGTAAAG
ATTACCCCTCGTCACTTGCAACTTGCTATTCTGTCAGATGAAGAATTGGATCTCATCAAG
GCTACAATTGCTGGTGGTGGTGTCAATCCACACATCCACAAATCTCTGATTGGGAAGAAA
GGACAACAGAAGACTGTCTAA

Gene 63. >ENST00000301931 cDNA sequence

ACTTCAGTTTGGACAATACTACTCACAGCTACTACACAGAGACCCGAACGAGTCACTGATAT
ACACCTGGACCACCACCAATGGATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATG
CCTCTGCATTACAGCCTCGTCTTCATCATTGGGCTCGTGGGAACTTACTAGCCTTGGTC
GTCATTGTTCAAAAACAGGAAAAAATCAACTCTACCACCTCTATTCAACAAATTTGGTG
ATTTCTGATATACTTTTTACCACCGCTTTGCCTACACGAATAGCCTACTATGCAATGGGC
TTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACCTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTG
CACCTCTACGCTACAACAAGATAAAAAGGATTGAACATGCAAAGGCGTGTGCATATTT
GTCTGGATTCTAGTATTTGCTCAGACACTCCCACTCCTCATCAACCCTATGTCAAAGCAG
GAGGCTGAAAGGATTACATGCATGGAGTATCCAACTTTGAAGAACTAAATCTCTTCCC
TGGATTCTGCTTGGGGCATGTTTCATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAAACTCTTCAGAACTGCCAAACAAAACCCACTCACTGAG
AAATCTGGTGTAAACAAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGT
CTCTGTTTTCACACCTTACCATGTTGCAATTATTCAACATATGATTAAGAAGCTTCGTTTC
TCTAATTTCTGGAATGTAGCCAAAGACATTTCGTTCCAGATTTCTCTGCACTTTACAGTA
TGCCTGATGAACTTCAATTGCTGCATGGACCTTTTATCTACTTCTTTGCATGTAAAGGG
TATAAGAGAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGCT
GTGAAGTCAGCCCCTGAAGAAAATTACGTCGAAATGACAGAAACGCAGATGATGATACAT
TCCAAGTCTTCAAATGGAAAGTGAATGGATTGTATTTTGGTTTATAGTGACGTAAACTG
TATGACAACTTTGCAGGACTTCCCTTATAAAGCAAAATAATTGTTTCTCAGCTTCCAATTAG
TATTCTTTTATATTTCTTTTCAATGGGCACTTTCCCATCTCCAACCTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAAACAACATAAAGCACATAAATAAATGCAAATAAATATTTTATTT
TTATTTGTAAACGAATACACCAAAAGGAGGCGCTCTTAATAACTCCCAATGTAAAAAGTT
TTGTTTTAATAAAAAATTTAATTATTATTTCTTGCCAACAAATGGCTAGAAAGGACTGAA
TAGATTATATATTGCCAGATGTTAATACTGTAAACATACTTTTTAAATAACATATTTCTTA
AATCCAAATTTCTCTCAATGTTAGATTAAATCCCTCAATAACACCAATGTTTTGTTTTG
TTTCGTTCTGGGTATATAAATTTGTTAAGGAACTCTTTTGAATAAAGAGCAGGATGCT

Gene 64. >ENST00000245300 cDNA sequence

CAGCAATTAAAGTCAGCCAGCACCAACTCCGACGCCAAGCGTTACACTGGAACTACTT
TTTAAAGCAACAAAAGAGTCTAAAAACAAATACAAATTTCTTAAATACACTGTTTCCAG
AAAGAGCTATTTTAAACAGAAGCAACTCAAAGATATCCCTTCGACAGAAGTGGAAGTGCTG
AAAAATGCTCATCTCTCACACAGACTTTTGATGGACAGGAGGTGCTGCTTTCTGTGAACC
ACTGAAGTAGAGCAGCTGAAATCACAAAACCTGGAAGACTTGGCTTTACGTACTCCCAAT
TGTGCACTAGAAAACAGCTCATCTATTGCTCTAACAGTCTAGTTCTTGATCTGCTGACCA
TGACACAAAACATTGCTGTTTCTCAACCTATGATAATTTAAAGAGAACATAAGGTAATAA
GTATCATGCCTACCAACAAGCTGTAAATGATCACCTGAACAATCAAGATCAACCTGTC
CCTTTTAAACAGCTCACATCCAGATGAATACAAATTTGCAGCCCTTGTCTTCTATAGCTGT
ATCTTCATAATTGGATTATTTGTTAACATCACTGCATTATGGGTTTTTCACTTGTACCACC
AAGAAGAGAACCACGGTAACCATCTATATGATGAATGTGGCATTAGTGACTTGATATTT

FIGURE 1 (CONT'D)

ATAATGACTTTACCCCTTTTGAATGTTTTATTATGCAAAAGATGAATGGCCATTTGGAGAG
TACTTCTGCCAGATTCTTGGAGCTCTCACAGTGTGTTTACCCAAGCATTGCTTTATGGCTT
CTTGCCCTTTATTAGTGCTGACAGATACATGGCCATTGTACAGCCGAAGTACGCCAAAGAA
CTTAAAAACACGTGCAAAGCCGTGCTGGCGTGTGTGGGAGTCTGGATAATGACCCTGACC
ACGACCACCCCTCTGCTACTGCTCTATAAAGACCCAGATAAAGACTCCACTCCCGCCACC
TGCCTCAAGATTTCTGACATCATCTATCTAAAAGCTGTGAACGTGCTGAACCTCACTCGA
CTGACATTTTTTTTTCTTGATTCTTTGTTTCATCATGATTGGGTGCTACTTGGTCATTATT
CATAATCTCCTTCACGGCAGGACGTCTAAGCTGAAACCCAAAGTCAAGGAGAAGTCCATA
AGGATCATCATCACGCTGCTGGTGCAGGTGCTCGTCTGCTTTATGCCCTTCCACATCTGT
TTCGCTTTCTGATGCTGGGAACGGGGGAGAACAGTTACAATCCCTGGGGAGCCTTTACC
ACCTTCCTCATGAACCTCAGCACGTGTCTGGATGTGATTCTCTACTACATCGTTTCAAAA
CAATTTTCAGGCTCGAGTCATTAGTGTCTGCTATACCGTAATTACCTTCGAAGCATGCGC
AGAAAAAGTTTCCGATCTGGTAGTCTACGGTCACTAAGCAATATAAACAGTGAAATGTTA
TGAATAATAAGGTTCTTTCAATCCCATCAAATTCCTTCACTAATACTACTCTGGC
GTCAATGGATATTCTGTATAATACTATCAAGTCCCTTTTCTCTTGAAAAAATAAATTCAT
TATCTTCATTTTAAAACTTATATAAAACATTTTTTGTGAATT

Gene 65. >ENST00000267068 cDNA sequence

CGGAGGTGAGGTTTTGTTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTCG
GCTTTAGTGCTGTCTCCGCTTTTCTTTCACCTTCACAGAGGTTTCGTGTCTTCTTAAAGA
AGGTTTTATTGGGAGGTAAAGGTCAATGCGTAGGGGTAGAGTAAGATGTCTTATGGTGAA
ATTGAAGGTAAATTTCTGGGACCTAGAGAAGAAGTAACGAGTGAGCCACGCTGTAAAAAA
TTGAAGTCAACCACAGAGTCGTATGTTTTTCACAATCATAGTAATGCTGATTTTTCAGAG
ATCCAAGAGAAAACCTGGAAATGATTGGGTCCCTGTGACCATCATTGATGTGAGAGGACAT
AGTTATTTGTCAGGAGAAACAAAATCAAACTACAGATTTGCATAGACCTTTGCATGATGAG
ATGCCTGGTAATAGACCAGATGTTATTGAATCCATTGATTACAGGTTTTACAGGAAGCA
CGTCTCCATTAGTATCCGCAGACGATGAGATATATAGCACAAGTAAAGCATTATATAGGA
CCCATTTACAAACCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATGTT
CTAAATGGTATAAATGACAGAGGAGGACAAAAAGAGAAACAGAAATTTAACTCTGAAAAA
TCAGAGATTGACAATGAATTATTCCAGTTTTACAAAGAAATTGAAGAGCTTGAAAAGGAA
AAAGATGGTTTTGAGAACAGTTGTAAAGAATCTGAACCTTCTCAGGAACAATTTGTTCCA
TTTTATGAGGGTCATAATAATGGTCTCTTAAACCTGATGAAGAAAAGAAAGATCTTAGT
AATAAGCTATGCCATCACATTGTGATTATCAGCAGAACTTGGGGAATGAGCCAGACAAA
TATCCCTGTAATGGACAAGTAATACCTACATTTTGTGACACTTCATTTACTTCTTTCAGG
CCTGAATGGCAGTCAGTATATCCTTTTATAGTGCCCTATGGTCCCCCTCTTCCAGTTTG
AACTATCATTTAAACATTGAGAGATTGAGTGGTCCACCAAATCCACCATCAAATATTTTC
CAAGCCCAAGATGACTCTCAGATACAAAATGGATATTATGTAAATAATTGTCATGTTAAC
TGGAATTGCATGACTTTTTGATCAGAACAAATGAATATACTGACTGTAGTGAGAATAGGAGT
AGTGTTTCATCCCTCTGGAAATGGCTGCAGTATGCAAGATCGATATGTGAGTAATGGTTTC
TGTGAAGTCAGAGAAAGATGCTGGAAAGATCATTGTATGGACAAGCATAATGGAACAGAC
AGGTTTTGTGAACCAGCAGTTTCAAGAGGAAAAGTTAAATAAATTGCAGAAGTTACTTATT
CTTTTAAAGAGGTCTGCCTGGTTCTGGGAAAAACAACATTGTCTCGAATTCTGCTTGGTCAG
AATCGTGATGGCATTGTGTTTCAGCACTGATGACTATTTTACCATCAAGATGGGTACAGG
TATAATGTTAATCAACTTGGTGATGCCCATGACTGGAACCAGAACAGAGCAAAACAAGCT
ATCGATCAGGGAAGATCTCCAGTTATAATAGATAACACTAATATACAAGCTTGGGAAATG
AAGCCATATGTGGAAGTGGCCATAGGAAAAGGATACAGAGTAGAGTTTCATGAACCTGAA
ACTTGGTGGAAATTTGATCCTGAAGAATTAGAAAAGAGGAATAAACATGGTGTGTCTCGA
AAGAAGATTGCTCAGATGTTGGATCGTTATGAATATCAAATGTCCATTTCTATTGTAATG
AATTGAGTGGAAACCATCACACAAAAGCACACAAAGACCTCCTCCTCCACAGGGGAGACAG
AGGTGGGGAGGCTCTCTTGGCTCACATAATCGTGTCTGTGTACAAATAATCATTAATTT
AGCTATTTTCAGCTAACACATTTGTTGTTGCACTTGAAAAGAGTTAGTGAGCCTGTCTT
GGAGTTTAAAGTAGTTTCAAATAAAAAAAGGCTACAGTGCCTCACAAAGGATGTTCCAGC
AAGTTGTTTAAATTTCCAGCAAGTTGTTAAAGTGTAATAAATAATATGAAATTTGATT
TTAAATGTTTTTATATTCTCTTGTGTAATACTCTTGGCTGTTATGGAAGCACCTGAGTA
ATAGAGTGGTGGGTAGGAGCTAGGATGTTTTTCTACAATCGAATTTTAAACTAATTTATC

FIGURE 1 (CONT'D)

TATTTTATAGACACTATTGAACAGTTTTTTAATAGTTCATATCTAAATCTAACTTTTCAT
 AAAACTTTACGGTTTTTCTTCACTACCTTAAATATGCAAGAAATACTGACTTGGTATAG
 GGTACCTTAGTTTTCTCTATTATTAGACAGGTAAAATTATATTTTCTGCTGATTGATCTG
 TGTGACAAAATTATTTCTTAGCTATAATCAGCACATCACTTAGTTCAAACAAAATCCCC
 AGCAAATGTTAGATAGTAGGTATATCAGTCACCTGGGGAGTTTTCTTCATAATATGCATA
 TTCATCTTGTAATGCATACATAGTTATCATCTCCTTCTCAACCCATCTCCCTAACCCCA
 CATGCTTGCCAGTTCTTGAAGGGATAAAGTGATTCTAATAATGTTTTACTTCTCTGTT
 CAATTTAATGTGATATAATTCTAGTATAAAAATATTTTGGACAGTTGCTTAACATGGTCA
 TAAGAGGATTTGTACTATAGAATATCTTCTAGTACTAATTTTTCTGTAGAGCAAATTATA
 TTTCTCTCACTGGATAGTTTTTAGATGTGTTTCTTCATATAAAATTAAAACTGAGATGG
 AATTC

Gene 66. >ENST00000255289 cDNA sequence

CGGGGTGAGATACCTGGGGGTGGGGAGGGGCCACAGAAGACATTGCCAGACACGCTGTC
 CCGGCAGCTTTCCCTGCAACTGACAGTACCTCAGAGGGAAAGAGTGTGCGTCATCCTAAA
 CCATCTACCTCAGAAAGCAAGCAGAGCACTCCCTCAGAGACCCAAACAGTGGGGGCACAT
 GTACTGCAGGTGTGCAGTGAGCACACATCACATTCCGCCCATCCAGAGCCTGCTCTGAAT
 TTGACTTTGGCATCGAAGGAAATCCCAAGTAAACTGGAAGCACAATTAGGTGAGGGAAAG
 GGAGAGGCCAAGCTGGATCTGAAATATGTTCTCCAGGAGAGTTGAACAGGAGGGAAAG
 GCAGCCAGGAAGGGTATCTGGGATGCCACAAGGAAGAGAATCTGTGAGCCTTGAGGGGA
 AGGGATCCATGTGGGGAAGCACACCCGGAAGCCACCGATGCACCTTGGCCATCTGCTGAAC
 AGTGACCTCCACCACCTTGGGGTGGGAAGAGGCAACTGTGAAGAGAAGAGAGGAGTCAAC
 CCAGGGGAGCAGGATTCTCTCCACACCACCCCAACAGGGCTCTGCTTCTTAGGAGGG
 GCTGATAATCAGCCCACTGGCAAAATTTACCATTGTGCAGGTGAGAAGTTGGGTGAAAGG
 ACATCCAGCAGCTTTTACCAGGTGACAGTCATGTGGCTTTTATTCTAATAATCTGACT
 GACAGCAAGCCCTTGGATGTCTATTGAGGAGGAAAGGCGTTGGGCAGTGGGAATAAGGAC
 AGTGTATATGGTTTTGGTGTTCATCTCTGTTGGAGAGAAACAAGACGGAGGTGCCTGAG
 CCCCTGGACCCTCAAAGTGGCCGCTCAGAAGCACGGGAAAGCAAAGAGGTACCACATCT
 GTTGCTGAAAACAGGAACCTTCTAGAGAATGCAGATAAGATTGAAAGCACCTCAGCAAGA
 GCAGATTAGTTCTCAATATTCCAGCACCCCTCCACCCAGAGACAACCTGTGAACATGACC
 TACCAGCCTACAACACCCAGTAGCAGTTTTTCAGGATGTTAGCGTGTTCGGTATGGATGCG
 GGGTCCCCCTTGGTAGTTCCACCCCTACTGATAGTGCACGCTTGTGTAACACGTCCCCC
 AAAGTGCTGACAAGAACAATTGCCCCAGTGGGATCCCCAAGCCTGTCTTCAACATTCC
 AAGGACACACCTTCTCGCAGGAGGGAATGGAGAATATCAGGTTGAAAAACAGAGGAG
 AGGACAGAAACTAAGCCCATCATTATGCCCAAGCCCAAGCATGTGAGGCCCAAGATCATC
 ACCTACATCAGGAGGAATCCCCAGGCCCTGGGCCAGGTGGACGCCTCGCTGGTTCCAGTG
 GGGCTTCCATATGCCCCGCCACATGTACCATGCCTCTTCCCCACGAAGAGAAGGCAGCA
 GGTGGTGACCTGAAGCCATCTGCCAACCTCTATGAGAAATTCAAGCCAGACCTGCAGAAG
 CCAAGGGTCTTCAGTTCGGGATTGATGGTGTCTGGAATCAAGCCCCGGGACATCCTTTC
 AGTCAAATGAGTGAAAAGTTTTTGCAGGAGGTTACAGACCACCTGGAAAAGAAGAGTTT
 TGTTCTCCTCCCTATGCTCATTATGAAGTCCCTCCAACCTTTCTATCGGTGAGCCATGCTC
 CTTAAGCCCCAGCTAGGATTGGGTGCAATGTCCCGTTTACCATCTGCAAGAGCAGGATT
 CTGATTGCAAGTCAGAGGTCTTCAGCGAGCGCCATCCACCCACCAGGACCCATAACAACA
 GCCACAGTCTCTACAGTTCCGATCCTTCAGATTTAAAGAAAGCTTCCAGTTCAAATGCT
 GCAAAATCCAATCTCCCGAAATCTGGTCTCCGTCTCCCGGATACTCACGTCTCCCGGCA
 GCCAACTGGCGGCATTTGGCTTTGTCCGGAGCTCCAGCGTCTCCTCAGTCTCCAGCACC
 CAGTCCGGGGACAGTGACAGCCAGAGCAGGGCCGGCCAGCCACCCGTTCAACCTTTGGG
 AATGAAGAACAGCCAGTTCTGAAGGCATCTCTGCCTTCTAAGGACACACCCAAAGGGGGCC
 GGCCGGGTGGCCCCCTCCAGCATCTCCAGTGTGACAGCACCCCGCAGGAGTTTACTTCCA
 GCGCCAAAATCCACTTCCACACCCGCTGGAAACAAAGAAAGATGCTCAGAAAGATCAAGAT
 ACGAATAAACCTGCTGTTTCATCTCCTAAGAGAGTAGCAGCTTCAACCACCAAGCTTCAT
 TCACCAGGATACCCAAAGCAGAGGACTGCGGCAGCTCGAAATGGGTTTCCGCCCAAGCCG
 GACCCGAGGCCCCGTGAGGCTGAGCGGCAGCTGGTGCTGCGGCTGAAGAGGCGGTGTGAG
 CAGCAGACCAGACAGCTGGGCGTTGCGCAAGGGGAGCTGAAGAGGGCCATCTGCGGCTTT
 GATGCCCTCGCCGTGGCCACGCAGCATTTCTTTAGAAAGAATGAAAGTGCCCTTGTGAAA

FIGURE 1 (CONT'D)

GAAAAAGAGCTGTCAATCGAACTTGCAAACATCAGGGATGAAGTTGCCTTCCATACAGCA
AAGTGCGAGAACTACAAAAGGAGAAGGAGGAGCTGGAGAGGCGGTTGAGGACGAGGTG
AAGAGGCTGGGCTGGCAGCAGCAGGCCGAGCTCCAGGAGCTGGAGGAGCGGCTGCAGCTG
CAATTGAGGGCGGAAATGGCGCGCCTGCAGGAGGAGCACGGTGACCAGCTGCTGAGCATC
CGGTGTCAACACCAGGAGCAGGTGGAAGATCTCACCGCCAGCCATGATGCTGCTCTCCTA
GAGATGGAAAATAACCAACACAGTTGCCATCACAATCCTGCAGGATGACCACGACCACAAA
GTCCAAGAATTGATGTCCACTCATGAGCTTGAAAAGAAAGAATTGGAAGAAAATTTTGAA
AACTGCGGCTGTCAATTGCAGGACCAGGTGGACACGCTGACCTTCCAGAGCCAGTCTCTG
CGGGACAGAGCCCGCGCTTCGAAGAGGCCTTGAGGAAGAACAAGAGGAGCAGCTGGAG
ATTGCATTGGCTCCTTATCAGCACTTGGAAGAAGACATGAAGAGTCTGAAGCAGGTATTA
GAAATGAAGAATCAGCAAATACACGAGCAAGAAAAGAAGATTCTTGAGCTGGAAAAGCTG
GCAGAAAAGAACATTATCCTAGAAGAAAAGATCCAGGTTCTCCAACAGCAGAACGAAGAC
CTCAAAGCAAGGATTGACCAAAACACAGTTGTCAACAGACAGCTGTGCGAGGAAAATGCT
AACCTCCAGGAATATGTTGAGAAGGAAACCCAGGAGAAGAAGAGATTGAGCCGAACCAAT
GAAGAGCTGCTTTGGAAGCTCCAACTGGGGACCCGACCAGTCCGATTAACTCTCGCCC
ACATCTCCCGTTTACCGCGGCTCCTCCTCGGGGCCCTCCTCTCCGGCCAGAGTCAGCACA
ACACCCAGATGACGCCACTACACGGCCTGCGGGAGCTCCGGCTTCTCGTCTCCGGTCTC
CACCTGAGGGAGCACCGACCCGGTGCCGCCGAGCTGGCCCTGTGCGCATGCTCAGTAG
CTGCGAATGCATCCTAGGCGCGTCTCCTCTGATCCCCGTGTAAGACTGCCCTGGTGTG
GCACTTAGGAATGTGTAAATGGTAAAGTCTGATGTGCAACGTTTTTACCATAGTTAGAGC
CAAAAGAAAGACACTTGCAATTGTTCTTGAGCAATGAACTTTCACTGCAGAATTTTCAGGT
TAGTTACAAAAGCTCAGTTTTTCAATATACATTGAATAATCATTGTGTACTGCACCGATA
TGTGTGTATATTTAGATATACGTATATACACATGCTGCGGTTCTGAATTTTATTTTTTAT
AACATGAAGTGCTGACATATTTTAGTGAAGGTGAGCAGTTTTCTAACTTGTGCCTAAGAA
TTATTGGGAAATGAAAATGCATTTCTATCTAGCTTCCAGGAATATTTCTACCCAAAATA
G

Gene 67. >ENST00000310558 cDNA sequence

ATGACTCTTAATGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGACCG
CCCTTAATCCATTTAACTCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTTACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCCTTTCTATTCCACAAAACCGCCATTGTATCCTGGCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 68. >ENST00000245302 cDNA sequence

AGAGTTTCCGCACCCGGGAGGGAGATGCGGCCGGGGCTCAGGCTCCTTGACAGTTGTAATT
TAGATTGAGAGAAGTGGTTTATCCTTTGACTGGAAGAAAGTAGCTGCAGTATTTCCCC
AGCACTTGCTGAGAGCATGCCGTATGCCAGGCTGTGAGGCTCGAGAGACAAGCAGTGGAA
GAGTTGCGGCCTGTTTCATCTCTGGATTGTAAATCTGAGCCTCCTTCTGGCCCCCTGGAAG
GGGACAGCATCACCATGGAATGATTCTTAACCAGCATAATGCTGGAGCCGGGAGCCACCA
ACCTGCAGTTTTTCAGAATGGCCGTGTTGGACACTGATTTGGATCACATTCTTCCATCTTC
TGTTCTTCCCTCCATTCTGGGCTAAGTTAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGC
ACGCAGCTATGATGGAGACTTTGTCTTTGATGACTCAGAAGCTATTGTTAACAATAAGGA
CCTCCAAGCAGAAACGCCCCCTGGGGGACCTGTGGCATCATGACTTCTGGGGCAGTAGACT
GAGCAGCAACACCAGCCACAAGTCTACCGGCCTCTCACCGTCTGACTTTTCCAGGATTAA
CTACTACCTCTCGGGAGGCTTCCACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCA
CAGTGGCATCTCTGTCTCATGGTGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTA
CACCAGTAAAGGCCGGAGGCTGCACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCT
GTTTGCTGTCCATCCTGTGCACACCGAGTGTGTTGCTGGTGTGTGCGCCGTGCAGACCT
CCTGTGTGCCCTGTTCTTCTTGTATCTTTCTTGGCTACTGTAAAGCATTTAGAGAAAG
TAACAAGGAGGGAGCGCATTCTTCCACCTTCTGGGTGCTGCTGAGTATCTTTCTGGGAGC
AGTGGCCATGCTGTGCAAAGAGCAAGGGATCACTGTGCTGGGTTTAAATGCGGTATTTGA
CATCTTGGTGATAGGCAAATTCAATGTTCTGGAAATTGTCCAGAAGGTACTACATAAGGA
CAAGTCATTAGAGAATCTCGGCATGCTCAGGAACGGGGGCCTCCTCTTCAGAATGACCCT

FIGURE 1 (CONT'D)

GCTCACCTCTGGAGGGGCTGGGATGCTCTACGTGCGCTGGAGGATCATGGGCACGGGCCC
GCCGGCCTTCACCGAGGTGGACAACCCGGCCTCCTTTGCTGACAGCATGCTGGTGAGGGC
CGTAAACTACAATTACTACTATTATTGAATGCCTGGCTGCTGCTGTGTCCCTGGTGGCT
GTGTTTTGATTGGTCAATGGGCTGCATCCCCCTCATTAAGTCCATCAGCGACTGGAGGGT
AATTGCACTTGCAGCACTCTGGTTCTGCCTAATTGGCCTGATATGCCAAGCCCTGTGCTC
TGAAGACGGCCACAAGAGAAGGATCCTTACTCTGGGCTGGGATTTCTCGTTATCCATT
TCTCCCCGCGAGTAACCTGTTCTTCCGAGTGGGCTTCGTGGTGCAGAGCGTGTCTCTA
CCTCCCCAGCGTTGGGTACTGTGTGCTGCTGACTTTTGGATTGCGAGCCCTGAGCAAACA
TACCAAGAAAAAGAACTCATTGCCGCTGTCTGTGCTGGGAATCTTATTCATCAACACGCT
GAGATGTGTGCTGCGCAGCGGCGAGTGGCGGAGTGAGGAACAGCTTTTCAGAAGTGCTCT
GTCTGTGTGTCCCCTCAATGCTAAGGTTCACTACAACATTGGCAAAAACCTGGCTGATAA
AGGCAACCAGACAGCTGCCATCAGATACTACCGGGAAGCTGTAAGATTAAATCCCAAGTA
TGTTTCATGCCATGAATAATCTTGAAATATCTTAAAAGAAAGGAATGAGCTACAGGAAGC
TGAGGAGCTGCTGTCTTTGGCTGTTCAAATACAGCCAGACTTTGCCGCTGCGTGGATGAA
TCTAGGCATAGTGAGAATAGCCTGAAACGGTTTGAAGCAGCAGAGCAAAGTTACCGGAC
AGCAATTAAACACAGAAGGAAATACCCAGACTGTTACTACAACCTCGGGCGTCTGTATGC
AGATCTCAATCGCCACGTGGATGCCTTGAATGCGTGGAGAAATGCCACCGTGTGAAACC
AGAGCACAGCCTGGCCTGGAACAACATGATTATACTCCTCGACAATACAGGTAATTTAGC
CCAAGCTGAAGCAGTTGGAAGAGAGGCAGTGAATTAATACCTAATGATCACTCTCTCAT
GTTCTCGTTGGCAAACGTGCTGGGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATT
CCTCAAGGCAATTAAAGCAAATCCAAATGCTGCAAGTTACCATGGTAATTTGGCTGTGCT
TTATCATCGTTGGGGACATCTAGACTTGGCCAAGAAACACTATGAAATCTCCTTGACGCT
TGACCCACGGCATCAGGAATAAGGAGAATTACGGTCTGCTGAGAAGAAAGCTAGAACT
AATGCAAAAGAAAGCTGTCTGA

Gene 69. >ENST00000255484 cDNA sequence

GGAAACTTGTCTCTGCGTTGTGGGGAGGACGCGCGCTCGCGCGGGATTTTCAAGCGTAG
GCCCCCGGGAACCTGAGCTGCCATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTT
GGGACGGCTGGACTATCACAAGGAGCAGGCGGCCCAGCTGCGGAACCTGGTGCAGTGTGG
TGACTTTTCTCATCTGTTAGTGACGGACCATCAGGTGCTGGAAAAAGACAAGAATTAT
GTGTATTCTACGTGAACCTTTATGGTGTGGAGTGGAAAAATTGAGAATTGAACATCAGAC
CATCACAACCTCCATCTAAAAAATAATTGAAATTAGCACCATTGCAAGTAACTACCACCT
TGAAGTTAATCCTAGTGATGCTGGAAATAGTGACCGAGTAGTCATTGAGGAGATGTTGAA
AACAGTGGCACAATCACAACAACCTTGAAACAACTCTCAAAGGGATTTTAAAGTGGTATT
ATTGACAGAAGTTGACAACTCACCAAAGATGCTCAGCATGCCTTGCGAAGAACCATGGA
AAAATATATGTCTACCTGCAGATTGATCTTGTGCTGCAATTCTACATCTAAAGTGATCCC
ACCTATTTCGTAGTAGGTGCTTGGCGGTTTCGTGTGCTGCTCCCAGCATTGAAGATATTTG
CCACGTGTTATCTACTGTGTGTAAGAAGGAAGGTCTGAATCTTCTTCACAACTGGCTCA
TAGACTTGACAGAGAAGTCTTGTAGAAATCTCAGAAAAGCCCTGCTTATGTGTGAAGCCTG
CAGAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCTGAGACAGATTGGGAGGT
GTATCTGAGGGGAGACTGCAAATGCTATTGTGAGTCAAGCAAACTCCACAAAGGCTCCTTGA
AGTTTCGTGGAAGGCTGTATGAGCTTCTAACTCATTGTATTCTCCTGAGATAATAATGAA
GGGCCTTCTCTCAGAACTGTTACATAATTGTGATGGACAACCTGAAAGGGGAGGTGGCACA
AATGGCAGCTTACTATGAGCATCGTCTACAGCTGGGTAGCAAAGCCATTTATCACTTGA
AGCGTTTGTGGCCAAATTGATGGCACTTTATAAGAAGTTCATGGAGGATGGATTGGAAGG
CATGATGTTCTGACTTCTGTGAGTTATTCTTGCAAAGATTTCTCAGTATCAGTATTTACA
TACAGCTTATATTAAAGAGCTGTGGGTAAATTAAGTAACTTAATCATGTGCTATTTGC
GTTTTTTTTGGTAATAACTTCTCTGTGAACTATTAATCATCCTCTGAGTTAAATAATTGCT
CCTATACTATTGAAGTATGTAGTTTTGTACATAACTTAGAGACTTTAGAGTCTAAGAAAA
TGATCTTAATTTACTTTAAGCATTGGTTATTCAAGTATTCATTGTTGATCCTCCTATTCT
CTTCCGTCTAATCTCTCACCTGCTAAAGGAGATTTACACATTAGAAAGCAAAGATTATTT
TCATTTATCCAGATGACCATTTCTGCCACAGGTAAACATGATTGTTTGACACACCATTAT
ATTTAATTCTAGTTTCTCTCAATGAATAATTGTATTTTTGTAGGAAATGTAAGATTTTCAT
TCTGAAACATAATTATTGGTATGGACAAATTTGCAGATAACATTTCTGTTGAGGCTGCAG
ATTTCCAACCTTTTATTTTCAAGTGGTTTCAAGTATGATTAGGTGGTACTAAGAAATAAGCA

FIGURE 1 (CONT'D)

TGTTTTCACTAATTTAAGTACTTGAGACTCTTGAAGAAAATTGAGAATGAAGTTCTGGAG
AAAGGTATGTTACTGTAGTAATTACTCTTTGAACAGGTTTTGTGTTTTGTATTAGCTCT
GCCCTTTTTTAATTAAATATTTTGGTTCATGGACCAAAGGGTTTACTTGACAAATTTGTGT
GACAGACTCCGAACAATTCCTTTACTACGAAGTATAATTTATAAAATAAAATATAACCAT
TTTAAGGGTACAGTTTGATTTTTGACCAGTGAACTATGATCCCAATCAAGGTATAGATG
CCGTACCCCCAAAAGTTCCTCCATATCCCTTTGCAGTCAGTTTATCCCTACCCTGGCC
CAGATGATCACTGATCTTGTCTATTATAGATGAGTTTTGCCAGTTCAAGAATTTAATGGAA
TCAGATATTGTAAGCATTCTTGTGTAATACTTCATTCTCTCTCATTATTGAGATTATCC
ATATTGTTGAATGTTTCACTAGTTAATGTTTATTGTTCAATATTTTTGTATATACTTTTA
AAGCCTATTCCTTGCTGATGGATCTTTGGTTTGTTCAGGTTTGGTTATTATGAATAA
AGTTGCTGTGAATACTTACGTGT

Gene 70. >ENST00000310576 cDNA sequence

GGCCTCACCATCTCCTCTTTCTTCTCCACCTCTTTGACAAGAAGCAGATGCACATTCTG
ATGGTTGGATTGGATGCCGCTGGCAAGACGACCATTCCGTATGAACTGAAGTTAGGGGAG
ATAGTCACCACCATTCTACCGTTGGCTGCAATGTGGAAGCGGTAGACTATAAAACATT
CGTTTCACAGTATGGGATGCTGGTGGTCAAGATAGAATTAGGCCTCTCCGGAAGTATTAC
TTCCCAAATACCCAATATCTTATATTTGTGGTAGATAGCAATAATCGTGAAAGAATTAAG
GAGGTAGCAGGTGAGCTGCAGAAATTGCTTCTGGTAGATGAGTTGAGAGAGGCAGTGCTG
CTGCTTTTTGAGAATCACAGGATTTGCCAAATGCTCTTCGATCTCCTCCTAACAGGACAT
TCTGTTCAAGCCACGTGCATAACACAAGGAAGTGGTCTGTGTGAGAGACCTGACCAGCTG
TCAAAGGAGCTTTCAAAA

Gene 71. >ENST00000255315 cDNA sequence

GGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAG
AGCTGCGGAAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTA
CTGAACTTTTCAGCAAGTGGACCTTTTGAAAGTCATGATCTTCTTCGAAAGGTTTTTCTT
GTGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTATCAGAAAAAATTTCCAGC
TCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTTCAGGGTCTATTTGCTCCGC
TAAATTTACAGATGGAATTCAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAA
GCTCAAATCTTTCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATA
TTCTTAATGATCCATCACAAAGCGAAGTCATGGGAGAGCCACACTTGATGGTGGAAATATA
AAGTTGGTTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGAGGGCTGCATCTTGTTTATA
GTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAGTACTGACACCTGAGAATTT
CTGCTCAAGTAGTATCAGTGATCATTTAAATTTTGGAGGGGCTTTTGGTTTACAGCCATG
TGACAATTTAAAGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTTAAACAGT
AGCCTTTGTCTTTAAAAAAGTTGTTGCTCATGAATATTATAAAATGATCTACAGGTTTCA
ATTCAACCTGTTTCTAGGTTTTTTTTGTAAATTTAGTTTTGATTAAAGCATTATAAGCATT
GAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTTTAATTGATTTTCAAGTGG
CAACTCTCAAATTGATTACAATATGAGATATATCAGTGTGTCCTTAACACTCATAAGA
ATAATATTTACTGTGTGATGCTATTTTAGGATTATAGTTATTGTTTGAATTTTCAAGG
TGAAAAGTAGAAGTTCCAAGGTTTTGATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGC
AACCAGTAGATGTAGGTAACTTTTACTTTCATAGACTTAATATGTAATTAATATATTGC
CAAGCAACACTGTTAAAGAAAAGTAAACTCATTTTTTCTTGTTCCTAATTTATATATTA
CAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTTTAGAACA
TTAGTGAATGGATCATCTTTTACAATTAAAGTATATTTTGATTATCAGTTTCTTAG

Gene 72. >ENST00000266943 cDNA sequence

CGGCGGACAGCGATGCTCAGCTGGCTGCGGCCGAGTCATCGCCTAGCGCTGGCAGGGCCG
CTGACCGACCGACGGAGGCGCCGATTGGCCGATTGTCCACTGCGCAGAAGGAGCAGCTGC
TCCGCGCCCCGCGCGCCGCGCTGAGGCCGAGGTCCGACGGGCGCGGGGAAGCCGAGGG
CTGCCGGAAGAACCTGCAGGTGTCACTCGGGACGCGGAAGTGCCTTGGCAGGTTTGCT
TTACAATACGCTTGAGACTCCCCGACAAGCGTAATTTGGTTCGAGTTTCGACGGGAAAGTAC
TCTCCCCACCCAGCGCCGCGCGGTAGTCCGAGGTTACTGTCCCCGGCGCGTCTCTGT
TGCCCCAGTCCAGAGGCTGCCCTTGAACCCGGGCGCGCACGAGCGCAGGGCATCCGAGGC
GACAGCCCCTGGCACGGCCCGACCTGTACCCAGCCTGGCAGGAAGACTGTAATCGTGGGA
ATACAGCTACCTACCCAGGCAATATGAAGATTTTATTGTAGAACCTGCCATTTTCTTAA

FIGURE 1 (CONT'D)

GTGCATTTGCTATGACTTTGACCGGTCCACTGACAACGCAATATGTTTATCGGAGAATAT
GGGAAGAACTGGCAACTACACTTTTTTTCATCTGATAGCAATATTTCTGAGTGTGAAAAAA
ACAAAAGCAGCCCAATTTTTTGCATTCCAGGAGGAAGTTGAGAAAAAGTGTACGTTTTTA
ATCTGCAGATGGACATAAGTGGATTAATTCCCTGGTCTAGTGTCTACATTACACTTTTTGT
CTATTAGTGTACACTACGGACGAAAATTCCCTATGATTTTGTCTTCCGTTGGTGTCTTTG
CAACCAGCGTTTTGGCTCTGTTTGTCTTTGCTATTTTGCCTTTCCATTCCAGCTTTTGATTG
CATCTACCTTCATTGGTGCATTTTGTGGCAATTATACCACATTTTGGGGAGCTTGTCTTTG
CCTATATAGTTGATCAGTGTAAAGAACAACAAACAAAAACAATTCGAATAGCTATCATTG
ACTTTCTACTTGGACTTGTACTGGACTAACAGGACTGTCTCTGGCTATTTTATTAGAG
AGCTAGGTTTTTGGTGGTCTGTTTCTAATTATTGCTGTGTCTCTTGTCTGTTAATTTGATCT
ATATTTTATTTTTTCTCGGAGATCCAGTGAAAGAGTGTTCATCTCAGAATGTTACTATGT
CATGTAGTGAAGGCTTCAAAAACCTATTTTACCGAAGTTACATGCTTTTTTAAGAATGCTT
CTGGTAAGAGACGATTTTTTGTCTGTGTTTGTACTTTTTTACAGTAATCACTTATTTTTTTG
TGGTAATTGGCATTTGCCCAATTTTTTATCCTTTATGAATTGGATTCAACACTCTGCTGGA
ATGAAGTTTTTATAGGTTATGGATCAGCTTTGGGTAGTGCCTCTTTTTTGTACTAGTTTCC
TAGGAATATGGCTTTTTTCTTATTGTATGGAAGATATTATATGGCCTTCATTGGGATTT
TTACCACGATGACAGGAATGGCTATGACCGCGTTTGCCAGTACAACACTGATGATGTTTT
TAGCCAGGGTGCCGTTCTTTTTCACTATTGTGCCATTCTCTGTTCTACGGTCCATGTTGT
CAAAAGTGGTTCGTTTCGACTGAACAAGGTACCCTGTTTGTCTGTATTGCTTTCTTAGAAA
CACTTGGAGGAGTCACTGCAGTTTCTACTTTTAATGGAATTTACTCAGCCACTGTTGCTT
GGTACCCTGGCTTCACTTTTCTGCTGTCTGCTGGTCTGTTACTACTTCCAGCCATCAGTC
TATGTGTTGTCAAGTGTACCAGCTGGAATGAGGGAAGCTATGAACCTTCTTATACAAGAAG
AATCCAGTGAAGATGCTTCAGACAGGTGACTGTGATTTAAACAAACAAAAAAATCTATG
AATGCACATATCATATACCATGACTTCTGAAGACTATAAATGAATTCACAATCAGTGCT
TCACTGAGAACCAATTTTACCTATCTTTTCTTCTAAACTGAACAGTCAGAGAGACAGCTC
CTGGCTTTAGCTTCTTGTGGTACCACGCACTTTGAGCACTTTGTGCGTATCATGCAATAT
ACTTGCAATACACAGAACAAATTTCAAATACGCCTCACTTTTAGACTTAGAAGAGAAACA
TTAAACCTTAAGGGTGTAAAGGAGGGATCAAGAACTTGATAAGGTCAAAGCAATAATCT
CTCTGACATATTCAGGCTCTTACACTGAGACCAAAGAGAAATCTTTACCTCAGTTTCTT
CATCAGCAGAATGGGTTTTCTGGCCTCTCTCAGGGATAATTTTGAAGGCATAATGAAAATT
ATGATGAATCACTCATTGGTAGGAAAATAATGATATAAGTTTCAAATATGTATGATTTTA
CCTATACCTGGTAATGCTTTATTTTATAGAGCCTGTTAAGCTGCTATTGATAGTCGGAGC
TTATATACTGTGACTTCTGAAGACTATACATGAATTCACAATCAGTGCTTTGTTGATAC
AAAATCCTTAAAAGGGAGGCACTTTAAAGAATATGTATTTTTTCACTTTTCTTAATATGTT
TCATCGGTGACAGGCATGATAATATTTCTATATGTAATGGGTAATTGGGAAAAAATAGAT
GATAAATAAAATTGCTCTAAAGAAGTTAAAAAACTGAATGAACAGCTAATACTGGTATAA
AGTAACATAATGTTTGGAGCCAACATTTGTTCTTGTGTGAGCAAAAGGATATTACATTC
CATGATCCCTGGCTGAGAATTCTGCCTCTAGTCTTTCTTACCCAGCTGTTGTCTATCCTT
GTTCAATTATAAATACTGCTAAGGGCATTTTTTAAATACGATCTTGTACTCCTTAAATTT
GAATCCGTCAACACGGTCACTCATAGGAAAATGATCAAAACAAGCAAGCCAGTCATGATTT
GACTCCTTCCCATCTCATTTTCTTACTGCCTTACGCTCATCCTGAGGTCCACCTTGGTCTC
TAAAAACACCATGTGTTCTCATGCCTCCATGTCTTTTACACACTGTTCCATTTGCTCTT
CCTCCACATTACATTGAAACTTTCAAGCCTCAGTCGAAACATTGCTTCTTCTGGATAGC
AGCCTTCTTGACATCCCTCCTCACTCCCCAGTCCCTACAGGGCTTCCATAGCTCTTTGTG
TGCACTTCGATCCCAGCATTTTCCATCGACTTGTAATTGTTTCTGCTACCTGACAATCAT
CGCCTTGAGTACTGGGACAACCTTTGATTACTCATTATATCCTCAATAAATATTTGTTGA
ACT

Gene 73. >ENST00000282397 cDNA sequence

CGGGAGGCTCGGAGCGCGCCAGGCGGACACTCCTCTCGGCTCCTCCCGGCAGCGGCGGC
GGCTCGGAGCGGGCTCCGGGGCTCGGGTGCAGCGGCCAGCGGGCGCCTGGCGGCAGGAT
TACCCGGGGGAAGTGGTTGTCTCCTGGCTGGAGCCGCGAGACGGGCGCTCAGGGCGCGGGG
CCGGCGGCGGCGAACGAGAGGACGGACTCTGGCGGCCGGGTGCTTGGCCGCGGGGAGCGC
GGGACACCGGGCGAGCAGGCCGCGTCCGCGCTCACCATGGTCAGCTACTGGGACACCGGGGT
CCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTCACAGGATCTAGTTCAGGTTCAAAATT

FIGURE 1 (CONT'D)

AAAAGATCCTGAACTGAGTTTAAAAGGCACCCAGCACATCATGCAAGCAGGCCAGACACT
 GCATCTCCAATGCAGGGGGGAAGCAGCCCATAAATGGTCTTTGCCTGAAATGGTGAGTAA
 GGAAAGCGAAAGGCTGAGCATAACTAAATCTGCCTGTGGAAGAAATGGCAAACAATTCTG
 CAGTACTTTAACCTTGAACACAGCTCAAGCAAACCACTGGCTTCTACAGCTGCAAATA
 TCTAGCTGTACCTACTTCAAAGAAGAAGGAAACAGAATCTGCAATCTATATATTTATTAG
 TGATACAGGTAGACCTTTCTGAGAGATGTACAGTGAAATCCCCGAAATTATACACATGAC
 TGAAGGAAGGGAGCTCGTCATTCCCTGCCGGGTACGTACCTAACATCACTGTTACTTT
 AAAAAAGTTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGACAGTAG
 AAAGGGCTTCATCATATCAAATGCAACGTACAAAGAAATAGGGCTTCTGACCTGTGAAGC
 AACAGTCAATGGGCATTTGTATAAGACAAACTATCTCACACATCGACAAACCAATACAAT
 CATAGATGTCAAATAAGCACACCACGCCAGTCAAATTAAGAGGCCATACTCTTGT
 CCTCAATTGTACTGCTACCACTCCCTTGAACACGAGAGTTCAAATGACCTGGAGTTACCC
 TGATGAAAAAATAAGAGAGCTTCCGTAAGGCGACGAATTGACCAAAGCAATTCCCATGC
 CAACATATTCTACAGTGTTCTTACTATTGACAAAATGCAGAACAAAGACAAAGGACTTTA
 TACTTGTGCTGTAAGGAGTGGACCATCATTCAAATCTGTTAACACCTCAGTGCATATATA
 TGATAAAGCATTCACTACTGTGAAACATCGAAAACAGCAGGTGCTTGAAACCGTAGCTGG
 CAAGCGGTCTTACCGGCTCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATG
 GTTAAAAGATGGGTTACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTC
 GTTAATTATCAAGGACGTAACCTGAAGAGGATGCAGGGAATTATACAATCTTGCTGAGCAT
 AAAACAGTCAAATGTGTTTAAAAACCTCACTGCCACTCTAATTGTCAATGTGAAACCCCA
 GATTTACGAAAAGGCCGTGTCTATCGTTTCCAGACCCGGCTCTCTACCCACTGGGCAGCAG
 ACAAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTTCTGGCA
 CCCCTGTAACCATAATCATTCCGAAGCAAGGTGTGACTTTTGTTCATAATGAAGAGTC
 CTTTATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCAT
 GGCAATAATAGAAGGAAAGAATAAGATGGCTAGCACCTTGGTTGTGGCTGACTCTAGAAT
 TTCTGGAATCTACATTTGCATAGCTTCCAATAAAGTTGGGACTGTGGGAAGAAACATAAG
 CTTTTATATCACAGATGTGCCAAATGGGTTTCATGTTAACTTGGAAGAAATGCCGACGGA
 AGGAGAGGACCTGAAACTGTCTTGCACAGTTAAACAAGTTCTTATACAGAGACGTTACTTG
 GATTTTACTGCGGACAGTTAATAACAGAACAATGCACTACAGTATTAGCAAGCAAAAAAT
 GGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGCA
 AGATTACAGGCACCTATGCCTGCAGAGCCAGGAATGTATACAGGGGAAGAAATCCTCCA
 GAAGAAAGAAATTACAATCAGAGATCAGGAAGCACCATACCTCCTGCGAAACCTCAGTGA
 TCACACAGTGGCCATCAGCAGTTCCACCACTTTAGACTGTCTAATGGTGTCCCCGA
 GCCTCAGATCACTTGGTTTAAAAACAACCACAAAATACAACAAGAGCCTGGAATTATTTT
 AGGACCAGGAAGCAGCACGCTGTTTATTGAAAGAGTCAAGAAGAGGATGAAGGTGTCTA
 TCACTGCAAAGCCACCAACCAGAAGGGCTCTGTGGAAGTTTCAGCATACCTCACTGTTCA
 AGGAACCTCGGACAAGTCTAATCTGGAGCTGATCACTCTAACATGCACCTGTGTGGCTGC
 GACTCTCTTCTGGCTCCTATTAACCTCTTTATCCGAAAAATGAAAAGGTCTTCTTCTGA
 AATAAAGACTGACTACCTATCAATTATAATGGACCCAGATGAAGTTCTTTTGGATGAGCA
 GTGTGAGCGGCTCCCTTATGATGCCAGCAAGTGGGAGTTTGGCCGGGAGAGACTTAACT
 GGGCAAATCACTTGGAAGAGGGGCTTTTGGAAAAGTGGTTCAAGCATCAGCATTTGGCAT
 TAAGAAATCACCTACGTGCCGGACTGTGGCTGTGAAAATGCTGAAAGAGGGGGCCACGGC
 CAGCGAGTACAAAGCTCTGATGACTGAGCTAAAAATCTTGACCCACATTGGCCACCATCT
 GAACGTGGTTAACCTGCTGGGAGCCTGCACCAAGCAAGGAGGGCCTCTGATGGTGATTGT
 TGAATACTGCAAATATGGAATCTCTCCAACCTCAAGAGCAAACGTGACTTATTTTTT
 TCTCAACAAGGATGCAGCACTACACATGGAGCCTAAGAAAGAAAAAATGGAGCCAGGCCT
 GGAACAAGGCAAGAAACCAAGACTAGATAGCGTCACCAGCAGCGAAAGCTTTGCGAGCTC
 CGGCTTTCAGGAAGATAAAAGTCTGAGTGATGTTGAGGAAGAGGAGGATTCTGACGGTTT
 CTACAAGGAGCCCATCACTATGGAAGATCTGATTTCTTACAGTTTTTCAAGTGGCCAGAGG
 CATGGAGTTCTGTCTTCCAGAAAGTGCAATTCATCGGGACCTGGCAGCGAGAAACATTCT
 TTTATCTGAGAACAACGTGGTGAAGATTTGTGATTTTGGCCTTGCCCGGGATATTTATAA
 GAACCCCGATTATGTGAGAAAAGGAGATACTCGACTTCCTCTGAAATGGATGGCTCCTGA
 ATCTATCTTTGACAAAATCTACAGCACCAAGAGCGACGTGTGGTCTTACGGAGTATTGCT
 GTGGGAAATCTTCTCCTTAGGTGGGTCTCCATACCCAGGAGTACAAATGGATGAGGACTT

FIGURE 1 (CONT'D)

TTGCAGTCGCCTGAGGGAAGGCATGAGGATGAGAGCTCCTGAGTACTCTACTCCTGAAAT
CTATCAGATCATGCTGGACTGCTGGCACAGAGACCCAAAAGAAAGGCCAAGATTTGCAGA
ACTTGTGGAAAACTAGGTGATTTGCTTCAAGCAAATGTACAAAGGATGGTAAAGACTA
CATCCCAATCAATGCCATACTGACAGGAAATAGTGGGTTTACATACTCAACTCCTGCCTT
CTCTGAGGACTTCTTCAAGGAAAGTATTTCAAGCTCCGAAGTTTAATTAGGAAGCTCTGA
TGATGTCAGATACGTAAATGCTTTCAAGTTCATGAGCCTGGAAAGAATCAAAACCTTTGA
AGAACTTTTACCGAATGCCACCTCCATGTTTGATGACTACCAGGGCGACAGCAGCACTCT
GTTGGCCTCTCCCATGCTGAAGCGCTTACCTGGACTGACAGCAAACCCAAGGCCTCGCT
CAAGATTGACTTGAGAGTAACAGTAAAAGTAAGGAGTCGGGGCTGTCTGATGTCAGCAG
GCCCAGTTTCTGCCATTCCAGCTGTGGGCACGTGAGCGAAGGCAAGCGCAGGTTACCTA
CGACCACGCTGAGCTGGAAAGGAAAATCGCGTGCTGCTCCCCGCCCCCAGACTACAATC
GGTGGTCCTGTACTCCACCCACCCATCTAG

Gene 74. >ENST00000310319 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAACGCAGAGTGCCTCTCCTCCT
CCAAAGGAACGCAGTTCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAACACTCTGCAGGAT
ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAATTTCAGGAAATA
CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
TTACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTTACAAGCC
AGAAGAGAGTGGGGGCCAATATTGAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
CAAATGCTGAGAGATTTTGTGCGCCACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAAATGTAA

Gene 75. >ENST00000267067 cDNA sequence

ATGGCATTGACAGAGACACAACCACAGCTCCTTTTCAAGCAGACCTGGTCTTAGCCCTCCAG
GTGCTCATGCTTTGGGAGATGACAGAGGCAACAAAGTACTTAAGAGAAGACAACACCCC
CAACGATCTCACTGTATTTCCAGCAAAATACTTGAGTCCTACCCAGGTGAAAAGCCATTG
ACAAAATCTCTGCAACGTGGAGAAGACCCCCAATTTGATCAGGTCATCAGCTCAATGAGC
TCCCTTTCTGAGTACTGCCTGCCTTCCATTCTACGTACATTATTTGACTGCGATGAACAA
CAGCGAGATTATTTAATGGAAAGACGGGACCTCGCCATTGATTTTATTTTTCTTTAGTA
TTAATAGAAGTTTTGAAACAGGGATCCCTAACTTGTCTAATTATAACCTACTTAGGTACC
TTGGTCCCAACACTGGCAATATGCATATTGTGGCAGACCTGTATGCAGAAGTCATTGGAG
TGTTGGCACAAGCCAAGTAAATCCCTGCTGTAAAGAAGAAATTTATGGCGGAGCTAAAA
GAATTACGGCACAAAGAGCAGAACCCATATGTGGTTCAAAGCATTATCAGCTTAATAATG
GGCATGAAATTTCTTTCGAATTAAGATGTATCCAGTGGAGGATTTTGGAGCCTCTCTTCAG
TTTATGCAGGAATGTGCACATTACTTCTCGAGGTCAAAGACAAAGATATCAAGCATGCC
TTGGCTGGGCTTTTTGTTGAAATACTTGTTCAGTTGCTGCTGCTGTTAAAAATGAAGTA
AATGTTCCCTGCCTTAGAAATTTTGTGGAAAGCCTGTATGACACCACGCTGGAACCTTTCT
TCTCGAAAGAAGCATTCTTTGGCCTTGTACCCCTGGTGACCTGTTTGCTCTGTGTGAGT
CAGAAGCAGCTGTTCTGAAACAGGTGGCACATTTTCTCAACAACCTGCTTGTCCAACCTT
AAAAACAAAGATCCCAAGATGGCTCGAGTTGCACTGGAATCTCTCTACAGATTACTTTGG
GTTTACATGATTTCGAATTAATGTGAAAGCAACACAGCTACTCAGAGCCGACTTATAACC
ATCATCACAACTTTTCCCCAAAGGGTCCCGCGGTGTGGTACCAAGGGACATGCCTCTG
AACATCTTTGTGAAATCATCCAGTTCATTGCCAGGAACGTTTAGATTTTGCAATGAAA
GAAATCATTTTTCGATTTTCTTTGTGTGGGAAAACAGCAAAAGCATTTCAGTCTCAACCCA
GAGAGAATGAACATTGGTTTACGGGCATTCTTGGTCATAGCTGATAGCTTGCAGCAGAAA
GATGGGGAACCTCCCATGCCGGTTACAGGAGCCGTTCTTCCTTCAGGAAACACGTTAAGA

FIGURE 1 (CONT'D)

GTAAAGAAAACATATTTGAGTAAACACTAACTGAAGAGGAAGCCAAAATGATAGGCATG
TCCTTATATTACTCTCAAGTACGAAAAGCTGTAGACAACATTTTAAGGCACCTTGATAAA
GAAGTAGGAAGGTGTATGATGCTGACTAATGTACAGATGTTAAACAAAGAACCGGAAGAC
ATGATCACGTGA

Gene 76. >ENST00000318671 cDNA sequence

ATGGCCAGCCAGCAGGATTCTGGGCTTCTTTGAGATCAGTATCAAATATTTACTGAAATCC
TGGAGTAATACTTCTCCCGTTGGCAACGGTTACATCAAGCCTCCGGTTCACCTGCTTCT
GGCACGCACAGGGAGAAAGGGCCGCCAACCATGCTACCCATCAATGTGGACCCAGACAGT
AAACCAGGAGAATATGTCTCAAAGTTTATTTGTCAACTTCACCACTCAGGCTGAACGC
AAGATTCTGATCATTATGGCAGAGCCCCTGGAAAAGCCATTGACAAAATCTCTGCAACGT
GGAGAAGACCCCCAATTTGATCAG

Gene 77. >ENST00000239887 cDNA sequence

ATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCC
GGGGGCATCGAGACCATCGCCAATGAGTTTCAGCGACCGGTGCACCCCGTCAGTCATATCA
TTTGGATCAAAAAATAGAACAAATCGGAGTTGCAGCCAAAATCAGCAAATCACTCATGCA
AACAAATACGGTGTCTAACTTCAAAGATTTTCATGGCCGAGCATTCAATGACCCCTTCATT
CAAAAGGAGAAGGAAAACCTTGAGTTACGATTTGGTTCCATTGAAAAATGGTGGAGTTGGA
ATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATG
TTGTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACAGTAACAGATTGT
GTTATTTTCAGTCCCCTCCTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCA
CAGATTGTTGGCCTAAACTGTTTAAAGACTTATGAATGACATGACAGCTGTTGCTTTGAAT
TACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCGGATAGTGGTTTTT
GTTGATATGGGACATTCAGCTTTTTCAAGTGTCTGCTTGTGCTTTTAAACAAGGGAAAATTG
AAGGTACTGGGAACAGCTTTTGATCCTTTCTTAGGAGGAAAAAATTCGATGAAAAGTTA
GTGGAACATTTTTGTGCAGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAATA
CGAGCACTCCTACGTCTGTATCAGGAATGTGAAAAACTGAAAAAGCTAATGAGCTCTAAC
AGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGATGTTTCCGGAAAG
ATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTTCTGCAAAAGATAGAAGTACCC
CTTTATTCACTGTTGGAACAAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATT
GTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATTCCTTTGGAAAA
GATATTAGCACAACTCAATGCAGATGAAGCAGTAGCCAGAGGATGTGCATTACAGTGT
GCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTCCGTACAGATGCAGTTCCTTTT
CCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTCATGAAGTCTTT
AGTCGAAACCATGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTT
GAGCTAGAAGCTTTCTATTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAATAGGC
CGCTTTGTAGTTTCAAGATGTTTCTGCACAGAAAGATGGAGAAAAATCTAGAGTAAAAGTC
AAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATCTATGGTGGAGAAA
GTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGA
CCACCAGAAAACCCAGACACTGATGCAAATGAAAAAAGTTGACCAGCCTCCAGAAGCT
AAAAAGCCCAAAATAAAGGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACCTGGTCTGG
CAGTTAGGGAAAGACCTTCTTAACATGTATATTGAGACAGAGGGTAAGATGATAATGCAA
GATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGAATATGTGTATGAG
TTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAAT
TTTTTGGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCT
AAACAAGCATATGTTGACAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTT
CGGTTTCAGGAAGCTGAAGAACGGCCAAAATGTTTGAAGAACTAGGACAGAGGCTGCAG
CATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATACAACCATATTGAT
GAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTGATGGAATGGATGAATAAT
GTCATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAA
ATTAAAACAAAAATCAAGGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAA
CCAAAATTTGAATCACCCAACTGGAAAGAACTCAAATGGCCCAATATTGATAAAAAAG
GAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCCACATCAGAATGGTGAA
TGTTACCCTAATGAGAAAAATTCTGTTAATATGGACTTGGACTAG

Gene 78. >ENST00000320027 cDNA sequence

FIGURE 1 (CONT'D)

GTGCGATACATAAGGCTGAGGAAGTGGGACCTCCCCTTTTGGGTGGGTAGTTTCAGCGCCG
GCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGC
GGAGGCTGAGCCCCGCTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCGCTGTCCCCGGG
GGAGTAGGAGGCTCCTGACAGGCCGCGGCTGTCTGTGTGTCTTCTGAGTGTGAGAGGAA
CGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGCCAGGGCAGAAAGCGGCGGCAGGAGAA
GCAGGCAGGGGGCCGGAGGACGCAGACCCGAGGCCGAGGCGGAGGCGGACCGCGAGCCGG
CCATGTGCGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGG
CCGGGGGCATCGAGACCATCGCCAATGAGTTGAGCGACCGGTGCACCCCGTCAGTCATAT
CATTTGGATCAAAAAATAGAACAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATG
CAAACAATACGGTGTCTAACTTCAAAGATTTTATGGCCGAGCATTCAATGACCCCTTCA
TTCAAAGGAGAAGGAAAACCTTGAGTTACGATTTGGTTCCATTGAAAAATGGTGGAGTTG
GAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCA
TGTTGTTGACTAAGCTGAAGGAACTGCTGAAAAAGCCTCAAGAAACAGTAACAGATT
GTGTTATTTTCACTCCCCTCCTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTG
CACAGATTGTTGGCCTAAACTGTTTAAGACTTATGAATGACATGACAGCTGTTGCTTTGA
ATTACGGAATTTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCGGATAGTGGTTT
TTGTTGATATGGGACATTCAGCTTTTTCAAGTGTCTGCTTGTGCTTTTAAACAAGGGAAAAT
TGAAGGTACTGGGAACAGCTTTTGATCCTTTCTTAGGAGGAAAAAATTCGATGAAAAGT
TAGTGGAACATTTTTGTGCAGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAA
TACGAGCACTCCTACGTCTGTATCAGGAATGTGAAAACTGAAAAAGCTAATGAGCTCTA
ACAGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGATGTTTCCGGAA
AGATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTTCTGCAAAAGATAGAAGTAC
CCCTTTATTTCACTGTTGGAACTCACTCTCAAAGTAGAAGATGTGAGTGCAGTTGAGA
TTGTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATTCCTTGGAA
AAGATATTAGCACAACACTCAATGCAGATGAAGCAGTAGCCAGAGGATGTGCATTACAGT
GTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTCCGTACAGATGCAGTTCCTT
TTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTATGAAGTCT
TTAGTCGAAACCATGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTT
TTGAGCTAGAAGCTTTCTATTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAATAG
GCCGCTTTGTAGTTTCAAGATGTTTCTGCACAGAAAGATGGAGAAAAATCTAGAGTAAAAG
TCAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATCTATGGTGGAGA
AAGTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGA
GACCACCAGAAAACCCAGACACTGATAAAAAATGTCCAGCAAGACAACAGTGAAGCTGGAA
CACAGCCCCAGGTACAAACTGATGCTCAACAAACCTCACAGTCTCCCCCTTCACTGAAC
TTACCTCAGAAGAAAACAAAATCCAGATGCTGACAAAGCAAATGAAAAAAGTTGACC
AGCCTCCAGAAGCTAAAAAGCCCAAAATAAAGGTGGTGAATGTTGAGCTGCCTATTGAAG
CCAACCTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATATTGAGACAGAGGGTA
AGATGATAATGCAAGATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGG
AATATGTGTATGAGTTGAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGC
AGGATCATCAAAATTTTTTGGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAG
GAGAGGACCAAGCTAAACAAGCATATGTTGACAAGTTGGAAGAATTAATGAAAATTGGCA
CTCCAGTTAAAGTTGCGTTTTAGGAAGCTGAAGAACGGCCAAAAATGTTTGAAGAAGTAG
GACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAAT
ACAACCATATTGATGAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTATGG
AATGGATGAATAATGTGATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTG
TACGTGCTCAGGAAATTAACAACAAATCAAGGAATTGAACAAACATGTGAACCCGTTG
TAACACAACCGAAACCAAAATTTGAATCACCCAACTGGAAAGAACTCCAAATGGCCCAA
ATATTGATAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCCAC
ATCAGAATGGTGAATGTTACCTAATGAGAAAAATCTGTTAATATGGACTTGGACTAGA
TAACCTTAAATTGGCCTATTCTTCAATTAATAAAATATTTTTGCCATAGTATGTGACTC
TACATAACATACTGAACTATTTATATTTTCTTTTTTAAGGATATTTAGAAATTTTGTGT
ATTATATGAAAAAGAAAAAAGCTTAAGTCTGTAGTCTTTATGATCCTAAAAGGGAAAA
TTGCCTTGGTAACCTTTCAGATTCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCA
GTCTCACCATTTGCATCACTGAGGATGAAACTGACTTTTGTCTTTTGGAGAAAAAACT

FIGURE 1 (CONT'D)

GTACTGCTTGTTCAAGAGGGCTGTGATTAAAATCTTTAAGCATTGTTCCTGC

Gene 79. >ENST00000313290 cDNA sequence

ATGAGCCGGGAGGGGCGGGCTCCGGCCAGTGTGCGGGGCACACAAGGGCCTGCTTCCCCC
TCCCTTTCACTGGGCGACTGGAGGACAGGCGGAGGAGTGTGGCTGGGCGGCTGGAGGACA
GGCGGAGGAGTGTGGCAGCCGGACAGCTGGAGGACAGGCGGAGGAGTGTGGTGGCTGGCA
GGGTATGTGTTTCTGGTTCTGTTGAGTGATGCTTGGAAGATCGTTCTGAGAGGTGAGGGC
AGCTCCCGGGACCCAGAGCACTGGGCTCCTGCAGGGGACTAGGAGGCCGGCTTTTATCA
GCTCATGAGCTTTTAAAAATGGAGAGAAGGGCAGGTGTGGTGGCTCATCCCTATAATCCC
AGCACTTTGGGAGGTGCGGGTGAGAGGATCATTGA

Gene 80. >ENST00000261573 cDNA sequence

ATGGACTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCT
CATCCTGGAGGGAGCACGAACCTAAAGGCAGACCCAGAAGAGCTTTTACAAAACCTAGAG
AAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAA
GTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGAGGACATTCAA
CAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATGTAACCAAATATTATGGATCC
TATCTGAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTA
GATCTATTAGAACCTGGCCCATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATA
CTGAAAGGACTCGATTATCTCCATTGCGAGAAGAAAATCCACAGAGACATTAAAGCGGCC
AACGTCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAG
CTGACAGACACCCAGATCAAAAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCC
GAGGTCAACACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACA
GCTATTGAACTTGCAAGAGGGGAACACCTCATTCCGAGCTGCACCCCATGAAAGTTTTTA
TTCCTCATTCAAAGAACACCCACCGACGTTGGAAGGAACTACAGTAAACCCCTCAAG
GAGTTTGTGGAGGCCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTA
TTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACCTTCTACTTGACCGAGCTCATC
GACAGGTACAAGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCC
GACGCGGAAACAGATGGCCAAGCCTCGGGGGGCAGTGATTCTGGGGACTGGATCTTCACA
ATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGGAGCTCTTCAGCCATCGGACTTGGAC
AGAAATAAGATGAAAGACATCCCGAAGAGGCCTTCTCTCAGTGTATCTACAATTATT
TCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACCTTGGGGTCC
ATTGAAGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGAC
ACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACT
TCATCCCCTGAAATTCCTTTGGCATTGTTGGGGTTTTGTTTTTCTTTTTTCTTCTTCAT
CCTCCTCCTTTTTTAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAGAGGTGCGCCA
CTGGGAGCCACCCAGCGCCAGGCGCCCGTCCAGGGACACACACAGTCTTCACTGTGCTG
CAGCCAGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTTCCAGCGATCATTTTA
TTTTATTTTATTACTTTTGTTTTAAATTTTAAACCATAGTGACATATTCCAGGAAAGTGT
CTTTAAAAACAAAACAAACCTGAAATGTATATTTGGGATTATGATAAGGCAACTAAAG
ACATGAAACCTCAGGTATCCTGCTTTAAGTTGATAACTCCCTCTGGGAGCTGGAGAATCG
CTCTGGTGGATGGGTGTACAGATTTGTATATAATGTCATTTTTACGGAACCCCTTTCCGGC
GTGCATAAGGAATCACTGTGTACAACTGGCCAAGTGCTTCTGTAGATAACGTCAGTGGA
GTAAATATTTCGACAGGCCATAACTTGAGTCTATTGCCTTGCTTTATTACATGTACATTT
TGAATTCTGTGACCAAGTATTTGGGTTTTATTTTGTATTTGCAGGGTTTGTATTAATAA
TTAATGCCCCTCTCTTACAGAACACTCCTATTTGTACCTCAACAAATGCAAATTTTCCCC
GTTTGCCCTACGCCCCCTTTTGGTACACCTAGAGGTTGATTTCTTTTTTCTCGATGGTAC
TATTTCTTAGTGTTTTAAATTGGAACATATCTTGCCCTCATGAAGCTTTAAATTATAATTT
TCAGTTTCTCCCATGAAGCGCTCTCGTCTGACATTTGTTTGGAAATCGTGCCACTGCTGG
TCTGCGCCAGATGTACCGTCTTTCCAATACGATTTTCTGTTGCACCTTGTAGTGGATTTC
TGCATATCATCTTTCCACCTAAAAATGTCTGAATGCTTACACAAATAAATTTTATAACA
CGCTT

Gene 81. >ENST00000255304 cDNA sequence

AGGGCGGACAGCCACGCCTCTGCGGAGGGCGACCGGAAGTGCTCACGTCTTCACCTTCCC
CGCCACGCCACCGTCTTTTCAAGGCCAGCGTGACAGGAGGAGGACTCTTTTGCCGCG
GACTCAAGCCGGAAGCCGCTTCTAGTGGAGACGCGAGTGGGGGAGGAGCAGTCCGAGG

FIGURE 1 (CONT'D)

GGAACGTGGGTTGAACGTTGCAACTAGGGTGGAGATCAAGCTGGAACAGGAGTTCCGATC
GACCCGGTACCAAGAAGGGGAGTGCCCGCGGCAGGGTTCAATTGAAAAAATCCTTAGTGAT
ATTGACATGTCTCAAGTGACATAAATTAGCCAATGACTCGGAATGATGGATTCTCCGAAG
ATTGGAAATGGTTTTGCCAGTGATTGGACCAGGGACTGATATAGGGATATCTTCACTCCAC
ATGGTGGGGTATTTGGGAAAAAATTTTGATTGAGCTAAAGTTCCATCAGATGAGTATTGC
CCTGCTTGTAGAGAGAAGGGAAAGTTAAAGCCTTAAAGACTTACCGAATTAGTTTTCAA
GAATCTATCTTTTTGTGTGAGGATCTGCAGTGCATCTATCCTTTGGGCTCTAAATCACTT
AATAACCTAATTTCTCCTGATTTGGAAGAATGTCACACTCCACATAAGCCTCAGAAAAGG
AAGAGCTTAGAAAGCAGCTATAAGGATTCACTTCTTTTAGCAAATTCAAAAAGACTAGA
AATTATATTGCTATTGACGGTGGAAAAGTTTTGAACAGCAAACATAATGGAGAAGTATAT
GACGAAACCTCGTCAAACCTTACCTGATAGTAGTGGTCAACAGAATCCAATTAGGACAGCT
GATTCCTTGGAGCGGAATGAGATTTTGAAGCTGATACTGTTGACATGGCTACTACAAA
GATCCTGCTACAGTTGATGTCTCTGGAACCTGGCAGACCTTCCCCTCAAATGAAGGATGT
ACATCTAAACTGGAAATGCCACTGGAGAGCAAATGTACATCATTTCCCAGGCTTTATGT
GTCCAGTGGAAAATGCTTATGCTCTCTGTTGGTTAGACTGTATCCTGTGAGCTTTGGTG
CACTCGGAAGAGTTAAAGAACACCGTGACTGGACTGTGCTCGAAGGAGGAATCTATATTC
TGGCGGTTGCTTACAAAATATAATCAAGCAAATACACTTCTATATACCAGTCAATTGAGT
GGTGTAAAGATGGAGATTGTAAAAAATTTACCTCAGAAATATTTGCAGAGATAGAGACC
TGTCTGAATGAAGTTAGAGATGAAATTTTTATTAGCCTTCAGCCCCAGCTTAGATGCACA
TTAGGTGATATGGAAAGCCCTGTGTTTGCATTTCCCCTGCTCTTAAACTAGAAACCCAC
ATTGAAAAGCTCTTCTATATTTCTTTTTCTTGGGACTTTGAATGTTGCGAGTGTGGACAC
CAATATCAAAACAGGCATATGAAGAGTCTGGTCACTTTACAAATGTCATCCCTGAGTGG
CACCCACTTAATGCTGCCATTTTTGGTCCATGTAACAATTGCAACAGTAAATCACAAATA
AGAAAAATGGTATTAGAAAAAGTATCTCCCATATTCATGTTGCACTTTGTAGAAGGCTTA
CCACAGAATGACTTGCAGCACTATGCATTTTCAATTTGAAGGCTGTCTTTATCAGATAACT
TCTGTAATTGAGTATCGAGCAAATAATCATTTTATAACATGGATTTTAGATGCTGATGGA
AGTTGGCTGGAATGTGATGACTTAAAAGGCCCATGTTCTGAAAGGCACAAGAAATTTGAA
GTTCTGCTTCAGAGATACATATTGTTATTTGGGAAAGAAAAATATCCCAAGTGACAGAT
AAAGAAGCTGCCTGCCTTCCACTTAAAAAGACTAATGACCAACACGCTCTCAGTAATGAG
AAACCAGTATCTTTAACATCGTGTTCTGTGGGTGATGCTGCCTCAGCTGAAACAGCCTCA
GTAACCTCACCTAAAGATATATCAGTTGCCCTCGTACTCTTTACAGGACACAGCTGTA
ACTCATGGAGATCATTTACTTTAGGTCCAAAAGGTTTGGTTGACAATATTTTACCTCTG
ACACTTGAAGAACTATCCAGAAAACAGCCTCAGTTTACAGTTAAATTCTGAAGCTTTTC
CTGTTAGAAAATAAACCTGTAGCAGAAAATACAGGAATTCTCAAACCAATACTTTGCTA
TCACAAGAATCACTAATGGCTTCTTCAGTATCAGCTCCATGTAATGAAAAGCTTATTCAA
GACCAATTTGTGGACATAAGTTTTCCATCCCAAGTTGTAAATACAAACATGCAGTCAGTA
CAGCTGAATACAGAAGATACTGTAAATACTAAATCTGTGAATAATACTGATGCTACTGGT
CTTATACAGGGAGTGAAGTCAGTAGAAATTGAGAAGGACGCTCAGTTAAAACAATTCCTT
ACACCAAAAACTGAACAATTAATAACCAGAACGTGTACATCTCAGGTATCTAATTTGAAG
AAAAAGAACTACAGCAGATTCTCAAACCACAACATCTAAGTCATTACAGAATCAGTCT
CTGAAAGAAAATCAGAAGAAGCCATTTGTGGGAAGTTGGGTAAAGGCTTAATAAGCAGG
GGTGCTTCTTTTATGCCACTCTGTGTTTTCAGCTCATAATAGAAACACTATAACTGATTTA
CAACCTTCAGTTAAAGGGGTAAATAATTTTGGTGGCTTTAAAACTAAAGGTATAAACAG
AAGGCCAGCCACGTATCCAAGAAAGCTCGTAAGAGTGCAAGTAAGCCTCCTCCCATCAGT
AAGCCACCAGCAGGCCCTCCATCGTCTAATGGCACAGCTGCCCACCCACATGCTCATGCT
GCTTCAGAAGTTTTGGAAAAGTCTGGAAGCACCTCATGTGGAGCTCAACTCAACCACAGT
TCTTATGGGAATGGTATTTCTTCAGCAAACCATGAAGACTTGGTGGAAGGTGAGATTCAT
AACTTCGTCTAAAACCTTCGTAAAAAGCTAAAGGCAGAAAAGAAGAAATTAGCTGCTCTT
ATGTCTTCCCGCAAAGCAGAACAGTTCGAAGTGAAAATCTAGAACAGGTGCCCCAGGAT
GGGTCTCCAAATGATTGTGAATCAATAGAGGACTTGTTAAATGAGCTACCATATCCAATT
GATATTGCCAGTGAGTCTGCATGCACCACTGTTTCTGGTGTTCCTGTACAGTAGTCAA
ACTCATGAAGAAATTTTAGCGGAATTATTGTCTCCTACACCTGTTTCAACAGAGCTGTCA
GAAAATGGGGAAGGTGACTTTAGGTATTTGGGAATGGGAGATAGTCATATCCCACCACCA
GTACCAAGTGAATTCATGATGTTTTCCAGAACACACATCTGAGACAGGACCATAATTAT

FIGURE 1 (CONT'D)

TGTAGCCCCACCAAGAAAAATCCATGTGAAGTTCAGCCAGACTCTCTGACAAATAATGCC
TGC GTTAGAACATTAACTTGGAGAGTCCGATGAAGACTGATATTTTCGATGAGTTTTTT
TCCTCCTCAGCATTAAATGCTTTAGCAAATGACACATTAGACCTACCTCATTTTCGATGAA
TATCTGTTTGAGAATTATTGA

Gene 82. >ENST00000267294 cDNA sequence

GCGGCCGCAAGCACGGGGGCGAATCCCCGCTGGGTGAGGGCCTGAACGGGAGCCAATCG
AGCAGCCGAGGCTACTGCCAATCACGCGGCTCCCTCCAATCCCACCCGTGCCATTTCCAA
AATCTCGGTCCCCTGTGCAGCTCAAATGTGGTGTTCCTCTGCCAATCGCTGGAGGATA
GAGTGGGAACAGGAATAAGCAGAGTTAAGAGGCCAGGACAAAAGAAGTTAAAGAGCGCCC
AATACATACATGTTTTTTGAAGGCGGGCAGAGGGAATAAAGTCCCCCAGTGAGGGTCTAT
GGGCCTGATTGTGTAGTTCTGATGGAGCCCCCTTTGAGCAAGAGGAACCCGCCAGCGCTG
AGATTAGCGGATTTGGCAACGGCTCAGGTCCAGCCGCTTCAGAATATGACAGGCTTCCCG
GCGCTGGCCGGCCCCGCCGCCCCTCCCAACTCCGGGCGCGCTCGCGCACCTCCGCCTG
CGGGACCTGGGCGCTGACCCCGGCGTGGCCACCACTCCGCTCGGACCCGAGCACATGGCC
CAGGCGAGCACGCTGGGCCTCAGCCCTCCCTCCCAGGCGTTCCCGGCACACCCGGAGGCT
CCGGCAGCCGCGCCCGCTGCTGCAGCCTTGGTTCGCGCACCCCGGCGCGGGCAGCTACCCC
TGCGGCGGGGGCAGCAGTGGCGCGCAGCCCTCCGCGCCCCCGCCCCAGCCCCCTCCTCTT
CCTCCCACCCCTTACCCCTCCCCCTCCCCCGCCTCCTCCTCCTCCTGCCCTCTCGGGC
TACACCACCACCAACAGTGGCGGGCGGCGGCGAGCAGCGGCAAAGGCCACAGCAGGGACTTC
GTCCTCCGGAGGGACCTTTCCGCCACGGCCCCCGCGGCGGCCATGCACGGGGCCCCGCTC
GGAGGGGAGCAGCGGTCCGGCACGGGCTCCCCCAGCACCCGGCCCCGCTCCCCACTCG
GCCGGCATGTTTCATCTCCGCCAGCGGCACCTACGCGGGCCCGGACGGCAGCGGCGGCCCCG
GCGCTCTTCCCCGCGCTGCACGACACGCCGGGGGGCCCCAGGCGGCCACCCGCACCCGCTC
AACGGCCAGATGCGCCTGGGGTGGCGGGCGGCGAGCGGCAGCCGCGGCGGCTGAGCTGTAC
GGCCGCGCCGAACCGCCCTTTCGCGCCGCGCTCTGGGGACGCGCACTACGGGGCGGTTGCG
GCCGCGAGCGGCGGCCCGCCCTGCACGGCTACGGAGCCGTGAACCTTAAACCTGAACCTGGCG
GCTGCGGCGGGCCGAGCAGCGGCGGGCCCCGGGCCCCACCTGCAGCACCACGCGCCGCC
CCGGCGCCGCCCGCCGCCCGCGCGCCCGCGCAGCACCCGCACCCAGCACCACCCCCACCTC
CCAGGGGCGGCTGGGGCCTTCTGCGCTACATGCGGCAGCCAATCAAGCAGGAGCTCATC
TGCAAGTGGATCGACCCCGACGAGCTGGCCGGGCTGCCGCCGCCGCCGCCGCCGCCGCCG
CCGCCGCCGCCACCGCCCCCGGCCGGCGGCGCCAAGCCCTGCTCCAAAACCTTTCCGGCACC
ATGCACGAGCTGGTGAATCACGTACGGTGGAGCACGTGGGAGGCCCGGAGCAGAGCAGC
CACGTCTGCTTCTGGGAGGACTGTCCGCGCGAGGGCAAGCCCTTCAAGGCCAAATACAAG
CTCATCAACCACATCCGCGTGCACACCGGCGAGAAGCCCTTTCCTGCCCTTTCCCCGGC
TGCGGCAAGGTCTTCGCGCGCTCCGAGAACCTCAAGATCCACAAGCGTACTCATACAGGG
GAAAAGCCTTTCAAATGTGAATTTGATGGCTGTGACAGGAAGTTTGCCAATAGCAGTGAT
CGGAAGAAACATTCCCATGTCCACACCAAGTGACAAGCCCTACTACTGCAAGATTCGAGGC
TGTGACAAATCCTACACTCACCAAGCTCCCTGAGGAAGCACATGAAGATTCACTGCAAG
TCCCCGCCACCTTCTCCAGGACCCCTTGTTTACTCATCAGTGGGGAATCCAGTGGGCGCC
CCCTTGTCCTTGTGCTGGACCCAGCCAGGAGTCACTCCAGCACTCTGTCCCCCTCAGGTG
ACCAACCTCAATGAGTGGTACGTTTGCCAGGCCAGTGGGGCCCCCAGCCACCTCCACACC
CCTTCCAGCAACGGAACACCTCTGAGACTGAAGATGAGGAAATTTACGGGAACCTGAA
GTTGTGCGGACGATACATTAGAATTTATTATTAAATAATAAAGTGAAATAATAAGTGGG
AGTCCTTGGACCACATCCTAACCTGAGACAATGCCGAGCCTGAGACAAACCCGTGACTCA
GACTTGCCACCGGTCTAATTAGCCCTATTTATTTCAGTATGAAACCTATGGTGTGTTGTA
CATTTAATTAATTTAATTAAG

Gene 83. >ENST00000255320 cDNA sequence

CAGTACATTGAGCTCCATAGAGACAGCACCGGGGCAAGTGAGAGCCGGACGGGCACTGGG
CGACTCTGTGCCTCGCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGC
CGAGAGGCAAAATGTCATCATATGCATTTTTTGTGCAAACCTGTGCGGAGGAGCATAAGA
AGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGT
GGAAGACCATGTCTGCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAGCGGACAAGG
CCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGT
TCAAGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCTCTCTGCTCTGAGT

FIGURE 1 (CONT'D)

ATCGCCCAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAAAC
TGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGCTG
CGAAGCTGAAGGAAAAATATGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTG
ATGCAGCAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGG
AAGATGAGGAAGATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAG
AAGAAGATGATGATGATGAATAAGTTGGTTCTAGCGCAGTTTTTTTTTTCTTGTCTATAA
AGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTGAAATGTAAGG
CTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACC
GAATGTGTCTTTAGATAGCCCTGTCTGGTGGTATTTTCAATAGCCACTAACCTTGCCTG
GTACAGTATGGGGGTTGTAAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGACA
GCACAAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCAGTTGTCTCTGATGCAG
CTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTGCAAAAAAAA
AAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT
TATTAGTATTGTTGTCCTTTTCATAGGTCTGAAATTTTTCTTCTTGAGGGGAAGCTAGTC
TTTTGCTTTTGGCCATTTTGAATCACATGAATTATTACAGTGTATTATCCTTTTCATATAGT
TAGCTAATAAAAAGCTTTTGTCTACACACCCTGCATATCATAATGGGGGTAAAGTTAAGT
TGAGATAGTTTTTCATCCATAACTGAACATCCAAAATCTTGATCAGTTAAGAAATTTACA
TAGCCCACTTACATTTACAACTGAAGAGTAATCAATCTACTCAAAGCATGGGATTATTA
GAATCAAACATTTTTGAAAGTCTGTCTTGAAGGACTAATAGAAAAGTATGTTCTAACCTT
TACATGAGGACTCTATTCTTTAACTCCCATTACCATGTAATGGCAGTTATATTTTGCAGT
TCCCACATTAAAGAAGACCTGAGAATGTATCCCCAAAAGCGTGAGCTTAAATACAAGAC
TGCCATATTAAATTTTTTGTGACATTAGTCTCAGTGAAGACTATGAAAATGCTGGCTAT
AGATGTCTTTTCCATTTATCTAAATATGGACTGCTCAGGAAACGAGACTTTCATTACA
AGTATTTTTTAATTAATTGGGCCAGCTTTTCAAACAAAGATGCCACATTCAAATAGGGTA
TATTTTCTATATTACGGTTTGGCCCTTTATAAATCCAAGTAGATAGGAAGAAAGAAGAC
AACTTTGCATCTCAGTATGAATTATTCAATTTATTTGAATGATTTTTCTTTACAAAACA
AACTCATTCAATTAGTCATGTTTATCTGCTTAGGAGTTTAGGGAACAATTTGGCAATTTTG
TGGTTTTTCGAGATTATCGTTTTCTTAAAGTGCCAGTATTTTAAAATAGCGTTCTTGTAAT
TTTACACGCTTTTGTGATGGAGTGCTGTTTTGTTATATAATTTAGACTTGGATTCTTTCC
ATTTGCATTTGTTTATGTAATTTTCAAGGAGGAATACTGAACATCTGAGTCCTGGATGATAC
TAATAAACTAATAATTGCAG

Gene 84. >ENST00000323380 cDNA sequence

GTGGCAGCCCTCGGAATCACGGGGAGGTCACTGCCACAACCTGGCTCTTTGTAGGGGGGT
CCAACCTCCAGGCAGGGGATCACTGCCTGAGGTACCTCTTTAGAGTCCTGAGTGTGGCTCC
TGGACCATCCCCCTTCCCACTGCTTGTCCACGCGCTTGCACCGCTATGAGCGATGACGGCA
AAGGAAAAGAAAAGCGTCTCCTACGAGGTGGTCTGTTTTCCAGTGGCAGGGGGAGCTA
CGGTACACAAGCACAGGTTTACATTTATGAAGCAGCCAATAAGAATTTCCAGCCTGAGAG
GACCTTGGAAACCAGAAGGAATTGGAGGAGATTTAAACAAGCTGACCCAAGGAAAGCACAA
GATCTTTCTATGCATTGAAGATCACCAAATCAAAGATAAAAAGTGCTCGACCATTATGGCC
TATGGCAAACCTCGGGCTGGCTGAAGCATCCTTCTCTTCCATTTAGAACCCTGGTGAGGCC
CCTTAGACCACCACTGGGCTGTCTCCTCCTCCTCCTCAGAGACAGAGTTCTGGGCTGGGCC
ATGGAGGTGTCTGTCAACACGGCAGTAGTCCTCGTTCTATGGAAAACAGCTGTTCCCTG
TGACACGACTCCATTCCCGCAGCTGCCTGCTATTAGCTGGGCTGACGGACAGCAGAGCA
CAGGGTTGGAAGACCACCTCTCAGACAGGTTTACCAAGAAGCTCACTGAGAGGCGACAC
AAACGGCCAAGAATGAAAAGACGGTCAGTGCCCTTGCAGATGGAAGCAGGCAATCATT
TTTACCTGCAAGGCTGATAAAGATGAAATGTTCTGATAATAACAGGAAGAGTATAAGGAA
ACTGTCACTCGATGGACTCCAGGTGAAATATACTAATCCAGCTGCCTTGGAGGGAAAAG
ATATCTTTCAAATTTGAAATGACAGGAATGGCAGCATTATGGGTGGGAGATAAAGAATCT
GGGTTTTCTTTAGGGGTGATGAAAATGTTCTAAAACGGATTGTGGTGACAGTTTTCCACA
ACTCGGAATATACTGAAAACCAACATTGTATACTTAAATGGGTGGGTTGTATGGTAT

Gene 85. >ENST00000266949 cDNA sequence

CGATCCTGCCGGAGCCCCGCCGCCGGCTTGGATTCTGAAACCTTCTTGTATCCCTC
CTGAGACATCTTTGCTGCAAGATCGAGGCTGTCTCTGGTGAGAAGGTGGTGAGGCTTCC
CGTCATATTCCAGCTCTGAACAGCAACATGGGGTGCAAAGTCCTGCTCAACATTGGGCAG

FIGURE 1 (CONT'D)

CAGATGCTGCGGCGGAAGGTGGTGGACTGTAGCCGGGAGGAGACGCGGCTGTCTCGCTGC
CTGAACACTTTTTGATCTGGTGGCCCTCGGGGTGGGCAGCACACTGGGTGCTGGTGTCTAC
GTCCTGGCTGGAGCTGTGGCCCGTGAGAATGCAGGCCCTGCCATTGTCTCTCTTCTG
ATCGCTGCGCTGGCCTCAGTGCTGGCTGGCCTGTGCTATGGCGAGTTTGGTGCTCGGGTC
CCCAAGACGGGCTCAGCTTACCTCTACAGCTATGTACCGTTGGAGAGCTCTGGGCCTTC
ATCACCGGCTGGAACCTTAATCCTCTCCTACATCATCGGTACTTCAAGCGTAGCGAGGGCC
TGGAGCGCCACCTTCGACGAGCTGATAGGCAGACCCATCGGGGAGTTCTCACGGACACAC
ATGACTCTGAACGCCCCCGGCGTGCTGGCTGAAAACCCCGACATATTGCGAGTGATCATA
ATTCTCATCTTGACAGGACTTTTAACTCTTGGTGTGAAAGAGTCGGCCATGGTCAACAAA
ATATTCACTTGTATTAAACGTCTGGTCTGGGCTTCATAATGGTGTGAGGATTTGTGAAA
GGATCGGTTAAAAACTGGCAGCTCACGGAGGAGGATTTTGGGAACACATCAGGCCGTCTC
TGTTTGAACAATGACACAAAAGAAGGGAAGCCCGGTGTTGGTGGATTATGCCCTTCGGG
TTCTCTGGTGTCTGTGCGGGGCGAGCACTTGCTTCTATGCCTTCGTGGGCTTTGACTGC
ATCGCCACCACAGGTGAAGAGGTGAAGAACCCACAGAAGGCCATCCCCGTGGGGATCGTG
GCGTCCCTCTTGATCTGCTTCATCGCCTACTTTGGGGTGTGCGCTGCCCTCACGCTCATG
ATGCCCTACTTCTGCCTGGACAATAACAGCCCCCTGCCGACGCCTTTAAGCACGTGGGC
TGGGAAGGTGCCAAGTACGAGTGGCCGTGGGCTCCCTCTGCGCTCTTTCGCCAGTCTT
CTAGGTTCCATGTTTCCCATGCCTCGGGTTATCTATGCCATGGCTGAGGATGGACTGCTA
TTTAAATTCTTAGCCAACGTCAATGATAGGACCAAAACACCAATAATCGCCACATTAGCC
TCGGGTGCCGTTGCTGTGTGATGGCCTTCCTCTTTGACCTGAAGGACTTGGTGGACCTC
ATGTCCATTGGCACTCTCCTGGCTTACTCGTTGGTGGCTGCCTGTGTGTTGGTCTTACGG
TACCAGCCAGAGCAGCCTAACCTGGTATACCAGATGGCCAGTACTTCCGACGAGTTAGAT
CCAGCAGACCAAAATGAATTGGCAAGCACCAATGATTCCAGCTGGGCTTTTTACCAGAG
GCAGAGATGTTCTCTTTGAAAACCATACTCTCACCCAAAACATGGAGCCTTCCAAAATC
TCTGGGCTAATTGTGAACATTTCAACCAGCCTCATAGCTGTTCTCATCATCACCTTCTGC
ATTGTGACCGTGCTTGAAGGGAGGCTCTCACCAAAGGGGCGCTGTGGGCAGTCTTTCTG
CTCGCAGGGTCTGCCCTCCTCTGTGCCGTGGTCACGGGCGTCATCTGGAGGCAGCCCGAG
AGCAAGACCAAGCTCTCATTTAAGGTTCCCTTCTGCCAGTGCTCCCCATCCTGAGCATC
TTCGTGAACGTCTATCTCATGATGCAGCTGGACCAGGGCACCTGGGTCCGGTTTGCTGTG
TGGATGCTGATAGGCTTCATCATCTACTTTGGCTATGGCCTGTGGCACAGCGAGGAGGCG
TCCCTGGATGCCGACCAAGCAAGGACTCCTGACGGCAACTTGGACCAGTGCAAGTGACGC
ACAGCCCCGCCCCCGGAGGTGGCAGCAGCCCCGAGGGACGCCCCCAGAGGACCGGGAGG
CACCCACCCCTCCCCACAGTGCAACAGAAACCACCTGCGTCCACACCCCTCACTGCA

Gene 86. >ENST00000245295 cDNA sequence

ATGCTCCTGGACGCGGGTCCGCAGTTCCTCGGCCATCGGGGTGGGCAGCTTCGCGCGCCAC
CATCACCACTCCGCCGCGGGCGGGCGGGCGGCTGCCGCCGAGATGCAGGACCGTGAACTG
AGCCTGGCGGGCGGCGCAGAACGGCTTCGTTGACTCCGCCGCCGCGCACATGGGAGCCTTC
AAGCTCAACCCGGGCGCGCACGAGCTGTCCCCGGGCCAGAGCTCGGCGTTACGTCGCAG
GGCCCCGGGCGCCTACCCCGGCTCCGCTGCGGCTGCCGCTGCGGCCGAGCGCTCGGGCCC
CACGCCGCGCACGTTGGCTCCTACTCTGGGCCGCCCTTCAACTCCACCCGGGACTTCCTG
TTCGCGAGCCGCGGCTTCGGGGACTCGGCGCCGGGCGGCGGGCAGCACGGGCTGTTGGG
CCGGGCGCGGGCGGCTGCACACGCGCACTCGGACGCGCAGGGCCACCTCCTCTTCCCG
GGCCTGCCAGAGCAGCACGGGCCGACGGCTCGCAGAATGTGCTCAACGGGCAGATGCGC
CTCGGGCTGCCCGGCGAGGTGTTGGGCGCTCGGAGCAATACCGCCAGGTGGCCAGCCCG
CGGACCGACCCCTACTCGGCGGCGCAACTCCACAACCAAGTACGGCCCCATGAATATGAAC
ATGGGTATGAACATGGCAGCAGCCGCGGCCACCAACCACCAACCACCAACCACCC
GGTGCCTTTTTCCGCTATATGCGGCAGCAGTGATCAAGCAGGAGCTAATCTGCAAGTGG
ATCGACCCCGAGCAACTGAGCAATCCCAAGAAGAGCTGCAACAAAACCTTTCAGCACCATG
CACGAGCTGGTGACACACGTCTCGGTGGAGCACGTGGCGGCCCGGAGCAGAGCAACCAC
GTCTGCTTCTGGGAGGAGTGTCCGCGCGAGGGCAAGCCCTTCAAGGCCAAATACAACTG
GTCAACCACATCCGCGTGACACAGGCGAGAAACCTTCCCCTGCCCTTCCCAGGCTGT
GGCAAAGTCTTCGCGCGCTCCGAGAACCTCAAGATCCACAAAAGGACCCACACAGGGGAG
AAGCCGTTCCAGTGTGAGTTTGGGGCTGCGACCGGCGCTTCGCCAACAGCAGCGACAGG
AAGAAGCACATGCAGTCCACACCTCCGATAAGCCCTATCTCTGCAAGATGTGCGACAAG

FIGURE 1 (CONT'D)

TCCTACACGCACCCAGCTCGCTGCGGAAGCACATGAAGGTCCATGAGTCCTCCCCGCAG
GGCTCTGAATCCTCCCCGGCCGCCAGCTCCGGCTATGAGTCGTCCACGCCCCCGGGGCTG
GTGTCCCCCAGCGCCGAGCCCCAGAGCAGCTCCAACCTGTCCCAGCGGCGGCGGCAGCG
GCGGCGGCGGCTGCGGCGGCGGCGGCGGCGGCTGTCCGCGGTGCACCGGGGCGGAGGCTCG
GGCAGTGGCGGCGCGGGAGGCGGCTCAGGCGGCGGCGGCGGCGGCTGGCGGGGCGGCGGC
GGGGCGGCGGCGGGGGCGGCGGCGGCTCTGGCGGGGCGGCGGACAGCCGGGGGTAC
AGCGGCCTCTCCTCCAACCTCAATGAATGGTACGTGTGACGGGTGGGGCCTCTCTCCCT
CTCCCTGTCCCCACCCAGCGCAGCAGCCCTCCCCGAGCTAGCAGCGAGGGCACCTTGT
GATCATGTTGTTAAATATTATGAATCTGATTTTTATGATGATGAAAATTTTACCAGCAGAA
GGATTTTTTAAAGTTTTTTTTTTTTTTTTTAATAATAATCTAGGCATGAAGAGCAAAAATA
TCCCTTCCGGAGTCTTTGAAGCTGAAAATATAAAACAAATAAAAAATAAAAAATAAAAA
CCCAAAAAATGTTGAACCAACCTCCCTGCTAATCTCCATGCCACGTTCTTTCCACC
CTGTTCCAGTCTTCTGACAACTGTGTACATAGCGGACTCCTCCTTTCTCCTCCGAGGT
GGTTTTAAAGGCTTTTTGGTGTATAGAAGTTTGTCCATTTGTAAACTCCGATTGCGTT
CCTCCCCGCTTCCGCCCCCTTCCCTTCCCTAAAGTGATGGGCTTTCTCTTTTCTCTTTTT
AGTTTACCCGGTTTTCTTTTTAAGTAATGTGGAAGAAAATGGTTTATTTTGTATTGTGGTA
TTGAATATTGTGTTCTTTTTATGAGGCAACCTGATTGTAACTTCATGTAACATATAGAC
TGGA AAAAATGAGCCGTGCCAAAGTCTCCCTTCTGTTTCTTCAGCACATTGACCCATAGC
ACACACATACACACCACCACCAACAACGCTTGTGAATGTATTTTTCTGTTAGCTGGGTTT
ACATGTGATGTTTTAGTGCTTTTGCAAGTTCAATTTGTTAGTTCTGTATGAAAGATTGT
GGGGGAAAAATAAACGTCGTGCCGTTAGCTTTTTCCGTAATAACACCCTTCTTCTGTAA
ATACCCGTTACCATATTTATCCATTTGTAATTAAATTATGGTATTAACCTTGCTACAGAGG
AAACAATATTTATAAAGAATGTTTCTTAACATATAAATATGTACAATTGTGGGCATAAACT
GTTTCAGATTTTTTATTTGAAGGTTTTAAGTGGTTTGATCATTTCTTGTGATGTTTTGAG
AGTAATGCATACAGAAATATAATAAAATGTGTTGAAACTGC

Gene 87. >ENST00000255317 cDNA sequence

ACTTCCCCCTTCTGTACAGGGCAGGTTGTGTCAGCTGGAGGCAGAGCAGTCCTCTCTGGGG
AGCCTGAAGCAAACATGGATCAAGAACTGTAGGCAATGTTGTCTGTTGGCCATCGTCA
CCCTCATCAGCGTGGTCCAGAATGGATTCTTTGCCCATAAAGTGGAGCACGAAAGCAGGA
CCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTGAGCGGGTCTACACTG
CCAACCAGAACTGTGTAGATGCGTACCCCACTTTCTCGCTGTGCTCTGGTCTGCGGGGC
TACTTTGCAGCCAAGTTCTCTGCTGCGTTTGCTGGACTGATGTACTTGTGTTGTGAGGCAA
AGTACTTTGTGCGTTACCTAGGAGAGAGAACGCAGAGCACCCCTGGCTACATATTTGGGA
AACGCATCATACTCTTCTGTTCTCTCATGTCCGTTGCTGGCATATTCAACTATTACCTCA
TCTTCTTTTTCGGAAGTGACTTTGAAAACATACATAAAGACGATCTCCACCACCATCTCCC
CTCTACTTCTCATTCCTTAACCTCTCTGCTGAATATGGGGTTGGTGTCTCATCTAATCAA
TACCTACAAGTCATCATAATTGAGCTCTTGAGAGCATTCTGCTCTTCTTTAGATGGCTGT
AAATCTATTGGCCATCTGGGCTTACAGCTTGAGTTAACCTTGCTTTTCCGGGAACAAAA
TGATGTGATGTCAGCTCCGCCCCCTTGAACATGACCGTGGCCCCAAATTTGCTATTCCCAT
GCATTTTGTGTTGTTCTTCACTTATCCTGTTCTCTGAAGATGTTTTGTGACCAGGTTTGT
GTTTTCTTAAATAAAATGCAGAGACATGTTTT

Gene 88. >ENST00000287380 cDNA sequence

AAATTTCCCGGGCCGGGAGCGCTGGGCCTGCCGGAAGGCGCTGGGACGGTTACCCAGCG
GGCCGCCGGCGGTGCTGGGCAAGCTTCGCCATGCAGAGCACTGACCTAGGCAACAAGGAG
AGCGGCAAGATATGGCACCGCAAGCCGTCCCCGGCCACGCGGGACGGAATTATAGTGAAC
ATTATTCAACAACCTTCCGATTACCATCCAAAAGTTTTGCGATTTTTGAATGTGGCTTTT
GATGGCACAGGCGACTGCTTAATTGCTGGGGACCAAGGAAATATTTATGTTTTTGAC
TTACATGGAAACAGGTTCAATCTTGTTGAGCGAACAGCACAAAGCTTGACAGCTCTGGCC
TTAATCTTCGTAGGAAATCTGAATTCCTTGTTGGCATTAGCTGATTATTCTATTAAATGT
TTTGATACAGTCACCAAGGAGCTAGTTAGCTGGATGAGAGGACATGAATCATCAGTATTT
TCGATCTCTGTGCATGCATCAGGGAATATGCCATCACAACTTCTTCTGATACAGCACA
TTATGGGACTTGATACCTTTTCAAGAGAAAAGAAAGCTGAATATTGCGCCAGTCTGTGGGT
ATACAGAAGGTTTTCTTCTACCATTAAGTAATACCATCCTCAGCTGTTTTAAAGATAAT
TCCATTTTTGCTGGGAATGTGACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCT

FIGURE 1 (CONT'D)

GAAAGCTCTAGTATATTATACAAAGTGTTTGTCTGTAACCAGAGATGGCCGAATCCTGGCT
GCTGGAGGCAAGTCAAATCATCTTCATTTGTGGTGCTTGAAGCTAGGCAGCTCTTTAGA
ATTATCCAGATGCCCACTAAAGTTCGAGCCATTGCGCATCTGGAATTTCTTCCTGATAGT
TTTGATGCTGGTTCTAATCAGGTTCTTGGAGTACTAAGTCAAGATGGTATTATGAGATTT
ATCAATATGCAGACTTGTAAGTCTCTCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGC
TCATCAGCAATTAGCCACATGGACGGTACATTGCATCTATTATGGAAAATGGAAGTCTA
AACATATATTGAGTTGAGGCTTTAACACAAGAAATAAATAAGCCACCTCCGCCTTTAGTG
AAAGTTATTGAAGATTTGCCAAGAATAAACTGAGTTCCAGTGATCTTAAGATGAAAGTA
ACATCAGGGAGAGTACAGCAGCCAGCAAAATCTAGGGAAAGCAAAATGCAAACTAGAATA
TTAAACAAGACCTGACTGGTGATTTTGAAAGTAAAAAGAATGAATTACCAGATGGATTA
AACAAAAAGCGTTTACAAATCTTATTAAAGGCTATGGTGAATATCCAACAAAATACAGA
ATGTTTCATTTGGCGCTCTCTGCTACAACCTGCCTGAAAATCATACTGCGTTTAGTACCCTC
ATAGATAAGGGGACTCATGTGGCATTCTCAACCTTCAGAAGAAATACCCCATCAAAAGT
AGGAAGCTACTCAGAGTATTACAGAGAACCTTATCTGCATTAGCTCACTGGTCTGTCTATT
TTTAGTGACACACCATATCTTCCACTCTTGGCATTTCATTGTAAAATTATTCCAGAAC
AACCAACTCATCTGTTTTGAAGTTATTGCTACTCTCATAATCAATTGGTGTCAACACTGG
TTTGAAATATTTTCTAATCCTCCTATCAATATTCTTAGCATGATAGAAAATGTTTTGGCA
TTTCATGACAAGGAAGTCTGCAACACTTCATAGATCATGATATAACCTCCAGCTATAT
GCATGGCCTCTTCTTGAAGTGTGTTCTCAGAAGTGCTGACAAGAGAGGAGTGGCTGAAA
TTGTTTGATAATATCTTTTCCAACCATCCTTCTTCTCTGATGACTGTTGTAGCCTAC
AACATATGTTCTAGAAGCCTCTGCTCAGCTGTAATCTTAAAGATGACTTTGAGTTTTTT
TTTCACCATCGGAATAACCTGGATATAAATGTTGTGATTAGACAAGTTTATCATCTCATG
GAGACCACGCCTACTGACATTCATCCAGACAGCATGCTTAATGTTTTTGTGCACTGACA
AAAGGGCAGTATCCAGTATTTAATCAATATCCAAAGTTTATTGTGGACTATCAAACACAG
GAACGAGAAAGAATAAGGAATGATGAATTGGATTACTTAAGAGAGAGGCAGACAGTTGAA
GATATGCAAGCTAAAGTCGACCAGCAAAGAGTTGAAGATGAAGCTTGGTACCAGAAACAG
GAGCTGCTTCGTAAAGCTGAAGAAACAAGAAGAGAAATGCTCTTACAAGAGGAGGAGAAA
ATGATACAACAAAGACAGAGGCTAGCTGCTGTGAAAAGAGAGCTGAAAGTAAAGGAAATG
CACTTACAAGATGCTGCAAGAAGGCGTTTTCTGAAGCTTCAGCAAGATCAACAGGAAATG
GAACTAAGAAGACTGGATGATGAAATTGGGAGAAAGGTATATATGAGAGATCGAGAAATT
GCTGCCACAGCCAGAGACCTAGAAATGAGACAGCTGGAACCTCGAATCAGAAAGAGACTT
TATGAGAAGAATCTTACTGAAAATCAAGAAGCTCTTGCAAAAGAAATGCGAGCAGATGCA
GATGCCTATAGACGAAAAGTGGATCTTGAAGAACACATGTTTCATAAGCTGATAGAAGCA
GGTGAAACCCAGAGCCAGAAAACCTCAGAAGGTGATTAAAGAAAATTTGGCAAAGGCTGAA
CAAGCATGCCTAAATACCGACTGGCAGATTGAGTCTTTACATAAAACAAAATGTGATGAT
CTACAACGAAACAAATGTTACCAGGAAGTAGCCAAACTCCTTAGGGAAAACAGAAGGAAA
GAAATAGAGATAATAAATGCAATGGTGGAGGAGGAAGCCAAGAAGTGAAGGAAGCTGAA
GGAAAAGAGTTCGTTTGGATCAGCAAAAGAAAGCTTCTGCTCTTTTCAGATGCGTCTAGA
AAGTGGTTTTTAAAGCAAGAGATAAATGCGGCTGTAGAACATGCTGAAAATCCATGTCAT
AAAGAAGAACCAGGTTCCAAAATGAACAGGACTCAAGCTGTTTGCCTAGAACCTCACAA
TTAAATGACTCTTCTGAAATGGATCCCTCAACACAGATTTCTTTAAATAGAAGAGCAGTA
GAATGGGACACCACGGGACAGAATCTTATTAAGAAAGTGAGAAATCTTCGCCAGAGACTC
ACTGCCCAGGCTCGTCAAGATGTCAAACCCCTCATCTTTGGCTGCATAGAATGCATGT
CACCTTGAGACGGTCGAGAGAGAGACCTATTTTGCAATCAGTGACATTGATTTTAGATT
ATTTATTTAAATTCCTATAAAGATCAGCCCTTTGTACAGAAAATGTGTCTATAAAAAT
TATGTGTTATTTAATTCTGATACTTTTTGGCTTGTAATGGCTTCTTGAACTTTTTACAA
TAAAATGTTTTAGAACTGTT

Gene 89. >ENST00000309336 cDNA sequence

CGCCATGCAGAGCACTGACCTAGGCAACAAGGAGAGCGGCAAGATATGGCACCGCAAGCC
GTCCCCGGCCACGCGGGACGGAATTATAGTGAACATTATTCAACACTTCGATTACCA
TCCAAAAGTTTTGCGATTTTTGAATGTGGCTTTTGATGGCACAGGCGACTGCTTAATTGC
TGGGGACCACCAAGGAAATATTTATGTTTTGACTTACATGGAAACAGTCACCAAGGAGC
TAGTTAGCTGGATGAGAGGACATGAATCATCAGTATTTTCGATCTCTGTGCATGCATCAG
GGAAATATGCCATCACAACCTTCTTCTGATACAGCACAAATTATGGGACTTGATACCTTTTC

FIGURE 1 (CONT'D)

AGAGAAAAAGAAAGCTGAATATTCGCCAGTCTGTGGGTATACAGAAGGTTTTCTTTCTAC
 CATTAAAGTAATACCATCCTCAGCTGTTTTAAAGATAATTCCATTTTTGCCTGGGAATGTG
 ACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCTGAAAGCTCTAGTATATTATACA
 AAGTGTGTGCTGTAACCAGAGATGGCCGAATCCTGGCTGCTGGAGGCAAGTCAAATCATC
 TTCATTTGTGGTGCTTGGAAGCTAGGCAGCTCTTTAGAATTATCCAGATGCCCACTAAAG
 TTCGAGCCATTGCCCATCTGGAATTTCTTCCTGATAGTTTTGATGCTGGTTCTAATCAGG
 TTCTTGAGTACTAAGTCAAGATGGTATTATGAGATTTATCAATATGCAGACTTGTAAC
 TTCTCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGCTCATCAGCAATTAGCCCATG
 GACGGTACATTGCATCTATTATGGAATGGAAGTCTAAACATATATTAGTTTCAGGCTT
 TAACACAAGAAATAAATAAGCCACCTCCGCCTTTAGTGAAAGTTATTGAAGATTTGCCCA
 AGAATAAACTGAGTTCCAGTGATCTTAAGATGAAAGTAACATCAGGGAGAGTACAGCAGC
 CAGCAAAATCTAGGGAAAGCAAAATGCAAACTAGAATATTAACAAGACCTGACTGGTG
 ATTTTGAAAGTAAAAAGAATGAATTACCAGATGGATTAAACAAAAAGCGTTTACAAATCT
 TATTAAGAGGCTATGGTGAATATCCAACAAATACAGAATGTTCAATTTGGCGCTCTCTGC
 TACAACCTGCCTGAAATCATACTGCGTTTAGTACCCTCATAGATAAGGGGACTCATGTGG
 CATTTCTCAACCTTCAGAAGAAATACCCCATCAAAAAGTAGGAAGCTACTCAGAGTATTAC
 AGAGAACCTTATCTGCATTAGCTCACTGGTCTGTCAATTTTTAGTGACACACCATATCTTC
 CACTCTTGGCATTTCATTTGTAAATATTATCCAGAACCAACTCATCTGTTTTGAAG
 TTATTGCTACTCTCATAATCAATTGGTGTCAACACTGGTTTTGAATTTTTCTAATCCTC
 CTATCAATATTCTTAGCATGATAGAAAATGTTTTGGCATTTCATGACAAGGAAGTCTGC
 AACACTTCATAGATCATGATATAACCTCCCAGCTATATGCATGGCCTCTTCTTGAACTG
 TGTCTCAGAAAGTGTGACAAGAGAGGAGTGGCTGAAATTGTTTCGATAATATCTTTTCCA
 ACCATCCTTCTTCTCTGATGACTGTTGTAGCCTACAACATATGTTCTAGAACGCCTC
 TGCTCAGCTGTAATCTTAAAGATGACTTTGAGTTTTTTTTTACCATCGGAATAACCTGG
 ATATAAATGTTGTGATTAGACAAGTTTATCATCTCATGGAGACCACGCCTACTGACATTC
 ATCCAGACAGCATGCTTAATGTTTTTGTGCACTGACAAAAGGGCAGTATCCAGTATTTA
 ATCAATATCCAAAGTTTATTGTGGACTATCAAAACACAGGAACGAGAAAGAATAAGGAATG
 ATGAATTGGATTACTTAAGAGAGAGACAGTTGAAGATATGCAAGCTAAAGTCGACCAGCA
 AAGAGTTGAAGATGAAGCTTGGTACCAGAAAACAGGAGCTGCTTCGTAAAGCTGAAGAAAC
 AAGAAGAGAAATGCTCTTACAAGAGGAGGAGAAAATGATACAACAAAGACAGAGGCTAGC
 TGCTGTGAAAAGAGAGCTGAAAGTAAAGGAAATGCACTTACAAGATGCTGCAAGAAGGCG
 TTTTCTGAAGCTTCAGCAAGATCAACAGGAAATGGAACCTAAGAAGACTGGATGATGAAAT
 TGGGAGAAAGGTATATATGAGAGATCGAGAAATTGCTGCCACAGCCAGAGACCTAGAAAT
 GAGACAGCTGGAACCTCGAATCAAAAAGAGACTTTATGAGAAGAATCTTACTGAAAATCA
 AGAAGCTCTTGCAAAAGAAATGCGAGCAGATGCAGATGCCTATAGACGAAAAGTGGATCT
 TGAAGAACACATGTTTCATAAGCTGATAGAAGCAGGTGAAACCCAGAGCCAGAAAATCA
 GAAGTGGAAGGAAGCTGAAGGAAAAGAGTTCCGTTTGAGATCAGCAAAGAAAGCTTCTGC
 TCTTTCAGATGCGTCTAGAAAGTGGTTTTTAAAGCAAGAGATAAATGCGGCTGTAGAACA
 TGCTGAAAATCCATGTCTATAAAGAAGAACCCAGGTTCCAAAATGAACAGGACTCAAGCTG
 TTTGCCTAGAACCTCACAATTAAATGACTCTTCTGAAATGGATCCCTCAACACAGATTTTC
 TTTAAATAGAAGAGCAGTAGAATGGGACACCACGGGACAGAATCTTATTAAGAAAGTGAG
 AAATCTTCGCCAGAGACTCACTGCCCGGGCTCGTCAAGATGTCAAACCCCTCATCTTTT
 GGCTGCATAGAATGCATGTACCTTGAGACGGTCGAGAGAGAGACCTATTTTGCAATCAG
 TGACATTGATTTTTAGATTATTTATTTAAATTCCTATAAAGATCAGCCCTTTGTACAGA
 AAAATGTGTCTATAAAAATTATGTGTTATTTAATTCTGATACTTTTTGGCTTGTAATGG
 CTTCTTGAACTTTTTACAATAAAAATGTTTTAGAACTGTT

Gene 90. >ENST00000327098 cDNA sequence

GTGACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCTGAAAGCTCTAGTATATTAT
 ACAAAGTGTGTGCTGTAACCAGAGATGGCCGAATCCTGGCTGCTGGAGGCAAGTCAAATC
 ATCTTCATTTGTGGTGCTTGGAAGCTAGGCAGCTCTTTAGAATTATCCAGATGCCCACTA
 AAGTTCGAGCCATTGCCCATCTGGAATTTCTTCCTGATAGTTTTGATGCTGGTTCTAATC
 AGGTTCTTGAGTACTAAGTCAAGATGGTATTATGAGATTTATCAATATGCAGACTTGTA
 AACTTCTCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGCTCATCAGCAATTAGCCAC
 ATGGACGGTACATTGCATCTATTATGGAATGGAAGTCTAAACATATATTAGTTTCAGG

FIGURE 1 (CONT'D)

CTTTAACACAAGAAATAAATAAGGAAGAAGTTCTGTGCTCAAAATTAATCACACAGCGAGT
 AACTAGCAGTTCTGGGTGTTCCAATTCTTCCAAGATTACATGAGATTGGGTGCATTTGGA
 GTGGCGTTTGCCACCTTTTTTTTATTCTAAAAAAAAGTTTGTGCCTCCTCCTTTTTGTTTT
 ATCTTTTAAAAAATTATACAAGTAGTGTCTTATTGCAGAAAAAATAAGAATGTACAGAA
 TAGCAAACAGACAAATACAAATCACTGAAAGTCTCACCATTCTCAGAAGATTCTGATTTA
 TATGTTCCCAATTTCTTTTCTATGTGTGTAAATATATATAGTCACTCCTCATTATTTGTG
 CATTCTATACATGAGAATTCACCTGCTCACTAAAATTTATTTGTAACCTTCAAAATTAATA
 GTTGCAAGTCTTTTATGGTCATTTCAGGGACATGCACAGAGCAGTGAAAATTTGAGTCACC
 AGATAACCTTTTTTCCAGCTGAAGTCAAATGAGGCAACACTCTGTCTTCTTATTTTCAGCT
 CTCATAGTGTAACAAGTATCCTTTTTTGTGATCTACTTAATACCATTTATTTTTTTTGCAT
 TTTGAAGCTTTTTTGTAAAGATTCTACTGCTTAAAGTGGTCCCCAAGCGTAGCGCTGAAGC
 GCTATTTTATTGTTTCTAAATACAGGAAGGCTGTGGCTTACCTTACAGAGAAAATACATGT
 GTTAAATAAACTCATTAGGAATGAGTTATAGTGCTAAGCTGTGAGTTCAATGATAAGGA
 ATCAGCAATGTGTATTAAATAAGATGTCTTTAAACAGAAACACACATATATGTATTGATT
 GATTAATGAGGCTCTCAGGAACCTGACTCTGTGTTTTCCCTAGGAGCAGTGTTCAGTAT
 TCACTAATCGAGTGTTTATGGTGACTTTATAGAACCCTGCAAATAGTGAGAATTAACATA
 TACATATATGTTTCTGTGTGTACGCACATGTGTGTGTATGCATACTTGTCTCTAAACATA
 TGGGATTATACTCTGCTGCTGTTTTGCTCTTTATGTCAATTATGTATACTATATAAGTATA
 TTTTACATTATAATATGTGCTATATATTAATAAATTTTTTTTAAATGTATTAATATCTGC
 TCTTACTGAGAGAGTTTTTCAAGCTGCTGAATAGTCAGTTTTACAGTACTAGCTAAACCTT
 CTTTTCTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCTTCCAGGCTGGAGTGCAGTGGT
 GTGATCTTGGCTCACTGCAGCCTCCGCTCCCGAGTTCAAACAATTCTCCTGCCTCAGCC
 TCCCTAGCAGCTGGGATTACAGGCGCGTGCCACCACGCCAGCTAATTTTTGTACTTTTA
 GTAGAGATGGTGTTCACCATGTTGGCCAGGCTGCTCTTGAACCTCCTGACCTTGGTGATC
 CACCCGCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGTCCAGCCTT
 GCAAACCTTCTTAATAGAGGCAGGCAGAGAGCTGAGAAAACTATGGTAAGAATGAGTCA
 TTGAGTTCCTTTCTGCTTGTTATCTGTTGAGCAAATTGATATCACATGAATAGAAAAGCT
 AGCTTGGAAGTAGAATGATCTTTTTTATTTTTTGTACACATTCCAGTACCATCAGTGTCT
 TTATGGCTGTTCCAGGCTACATTAATGTTCAATTCTATATTCTCTATAAATCATAACTCA
 CCTTTGTCTCATTTTTTACCAGTTTTATTTTTCTTGTCAATTGGAGAATTTCTGGTATTGTGG
 TAATAGAGTAAATGAATTCTTAAGTGTTGAAGGTTTAACTACAAAGGTATGTCAAGTC
 AGGTTGTTTTCTCAGGTTCTTTTTTGGGAGGTTATACTTCATGGTAGAGGATAAGGCTCAA
 ACGGGAAATTGTGACATTTTAATAAATTTTAATTTTAATAAAATTTTAGTAAATTTT

Gene 91. >ENST00000314393 cDNA sequence

CTCCGTACGGGGGCTTTTTCTGTCTGTCTGTCTGGCTGGCAGGCTGGCTTTCCCCCTCTT
 TCCCACGGAGCCCGAGCCGGGCGCCCGGTGGGGAGTGGGGAGTGGGTGGGGGGAGCCAGC
 AGAGTTCCATTTTGGAAACGCCCGTGCCGCGTCTCCGCGTTCCAGCCCGGGTCCCCGCGT
 TCACAGCCCCAGCGCAGGTCTGGATGTACCGACTGCTTTTGGAAATAAAAGATTCCAGG
 ATGTGAGCAACACGGGACCGATATGATGCTTCTGGTGTGTTAGTGGTTGGTGCCATTC
 CAATTTTCTGTGCTGAAATCATTCTGAAAACTCAAACAGTAGACTTCAGCACACAAGGAA
 AGCCAAAGCCATTTGAGGGGGGAATAAAGCCAAAAGCCTTTACCTTATTCTGTTCCAAGAA
 TCTCACCGCCCTCCTTATCCCCCTCCAAAAATAAGCCATTGCACACAGACAGGCAGCA
 TGGCTAGCAAAACGAAAATCTACAACTCCATGCATGGTTTCGGACATCACAAGTAGTAGAAC
 AAGATGTGCCCAGGAAGTAGACAGGGCCAAAGAGAAAGGAATCGGCACACCACAGCCTG
 ACGTGGCCAAGGACAGTTGGGCAGCAGAACTTGAAAACTCTTCCAAAGAAAACGAAGTGA
 TAGAGGTGAAATCTATGGGGGAAAGCCAGTCCAAAAAACTCCAAGGTGGTTATGAGTGCA
 AATACTGCCCCCTACTCCACGCAAAACCTGAACGAGTTTACGGAGCATGTGACATGCAGC
 ATCCCAACGTGATTCTCAACCCCTCTACGTGTGTGCAGAATGTAACCTTCAACCAAAA
 AGTACGACTCCCTATCCGACCACAACTCCAAGTTCCATCCCGGGGAGGCCAACTTCAAGC
 TGAAGTTAATTAAACGCAATAATCAAACCTGTCTTGGAACAGTCCATCGAAACCACCAACC
 ATGTCTGTCCATCACCACAGTGGCCCTGGAACTGGTGACAGTGATTCTGGGATCTCGG
 TGAGTAAAACCCCATCATGAAGCCTGGAAAACCAAAGCGGATGCCAAGAAGGTGCCCA
 AGAAGCCCAGGAGATCACCCCGAGAACCACGTGGAAGGGACCGCCCGCTGGTGACAG
 ACACAGCTGAGATCCTCTCGAGACTCGGCGGGGTGGAGTCTCTCCAAGACACATTAGGAC

FIGURE 1 (CONT'D)

ACGTCATGCCTTCTGTACAGCTGCCACCAAATATCAACCTTGTGCCCAAGGTCCCTGTCC
 CACTAAATACTACCAAATACAACCTCTGCCCTGGATACAAATGCCACGATGATCAACTCTT
 TCAACAAGTTTCTTACCCGACCCAGGCTGAGTTGTCTGGCTGACAGCTGCCTCCAAAC
 ACCCAGAGGAGCACATCAGAATCTGGTTTGCCACCCAGCGCTTAAAGCATGGCATCAGCT
 GGTCCCCAGAAGAGGTGGAGGAGGCCCGGAAGAAGATGTTCAACGGCACCATCCAGTCAG
 TACCCCGGACCATCACTGTGCTGCCCGCCAGTTGGCCCCCAAAAGGTGACGCAGCCCA
 TCCTCCAGACGGCTCTACCGTGCCAGATCCTCGGCCAGACTAGCCTGGTGCTGACTCAGG
 TGACCAGCGGGTCAACAACCGTCTCTTGCTCCCCCATCACACTTGCCGTGGCAGGAGTCA
 CCAACCATGGCCAGAAGAGACCCTTGGTGACTCCCCAAGCTGCCCCGAACCCAAGCGTC
 CACACATCGCTCAGGTGCCAGAGCCCCACCCAAGGTGGCCAACCCCCGCTCACACCAG
 CCAGTGACCGCAAGAAGACAAAGGAGCAGATAGCACATCTCAAGGCCAGCTTTCTCCAGA
 GCCAGTTCCCTGACGATGCCGAGGTTTACCGGCTCATCGAGGTGACTGGCCTTGCCAGGA
 GCGAGATCAAGAAGTGTTTCAGTGACCACCGATATCGGTGTCAAAGGGGCATCGTCCACA
 TCACCAGCGAATCCCTTGCCAAAGACCAGTTGGCCATCGCGGCCTCCCGACACGGTCGCA
 CGTATCATGCGTACCCAGACTTTGCCCCCAGAAGTTCAAAGAGAAAAACAGGGTCAGG
 TTAAATCTTGGAAGACAGCTTTTTTGAAAAGTTCTTTTCTACCCAAGCAGAACTGGATC
 GGCTAAGGGTGGAGACCAAGCTGAGCAGGAGAGAGATCGACTCCTGGTTCTCGGAGAGGC
 GGAAGCTTCGAGACAGCATGGAACAAGCTGTCTTGATTCCATGGGGTCTGGCAAAAAAG
 GCCAAGATGTGGGAGCCCCAATGGTGCTCTGTCTCGACTCGACCAGCTCTCCGGTGCCC
 AGTTAACAAGTTCTCTGCCAGCCCTTCGCCAGCAATTGCAAAAAGTCAAGAACAGGTTTC
 ATCTCCTGAGGAGCACGTTTGCAAGAACCAGTGGCCTACTCCCAGGAGTACGACCAGT
 TAGCGGCCAAGACTGGCCTGGTCCGAAGTGAAGTGGATGGAGCAGTACCAGCACCAGCCATGGCAG
 GCTTGCTGAAAACGGGAACCGTGAAGTGGATGGAGCAGTACCAGCACCAGCCATGGCAG
 ATGATCACGGCTACGATGCCGTAGCAAGGAAAGCAACAAAACCCATGGCCGAGAGCCCAA
 AGAACGGGGGTGATGTGGTTCCACAATATTACAAGGACCCAAAAAGCTCTGCGAAGAGG
 ACTTGGAGAAGTTGGTGACCAGGGTAAAAGTAGGCAGCGAGCCAGCAAAAGACTGTTTGC
 CAGCAAAGCCCTCAGAGGCCACCTCAGACCGGTGAGAGGGCAGCAGCCGGGACGGCCAGG
 GTAGCGACGAGAACGAGGAGTGCAGCGTTGTGGATTACGTGGAGGTGACGGTCCGGGAGG
 AGGATGCGATCTCAGATAGATCAGATAGCTGGAGTCAGGCTGCGGCAGAAGGTGTGTGCG
 AACTGGCTGAATCAGACTCCGACTGCGTCCCTGCAGAGGCTGGCCAGGCCTAGACAGGGA
 AGTCTGTTAGAACTGCTGTGCTGATCAACGGGACGCTCCGTCTTTGAAGAAAGAAGAGAT
 GGTCTCTCCCCAGCCATGGGCCACCCCTTGCCAGTGACTCCAAGTGGAACTACTTAGCTCG
 CGTGTGCTGGAGGGTGCGGGAAGTCCAGCGACTCTCAGACGCACCTCCCAGAGGACCGG
 TGGGAATTGTTTCATAGTGCCAAAGTCTACTACTGCGTTTTCAATGGGTCTTGTACATA
 GTTTGCTCCTCTGCCCTAGCCCTCACCTCTTGCTATACTGGAACCGATTTGTACAATGTG
 GGAATTTTGTACCTTTTTTAATCAAGGGCAACTTCCTTTTTCCAGCACTACCATTGTAAGG
 TTTTTTTCAGGAGGGAGGGCTAACCACCTTGCTTTTTCTTTTTCTTTTTTTTTTTTT
 ATTTTTGTTTTATTAAATTTGGGGAAAGGGGTGTTAGCATTAGTGCCATGATATCTACTGG
 ATTTTAAGTAGGGAGACTTTATTTTTAAAGGTAGGTTGAAATTTGGGAGATTTCTCGGCA
 GGAAGGGCTGAAATCCAGGCCCTGTCTCAACTTGGAGAGAGGTGACAGACGGCAGATCT
 TCCAAATCAAATTCCTTTCCAGTTCTTCCCCTGGCTGCCTTTTTGGGGGTCCCTGCCTTA
 GCCCCACACAAGGCTTTCTGAACTGCCAAGAGGGGATCTGGCTTCTCAACTGCTCGGCCT
 CTTGGGCCAGGCTGTGCCAGCCAGCCCTGGGAGAACTGGGTAGCAGGTGGCTGACTTCT
 TTAAGCACCTTTCTAAATACCAGCAGAAGAGGCTCCCGCCTCTGTTAGCATGATCAGTAC
 TATTGTGACATTAAACAACAATAAGATCTTCTATCTGGAGGGTACAGAGGTGAAT
 GGCTTTGGTTTTTCATTTCTTCTTCACTGCCTTTTTCTCGGTGTGGTATTTGACAAGATT
 TTAGCTCAAAGCCTCACCATGAATTGATTTTTTTTGTGTTGTGTGTGTTGTTTTGGGA
 CAATTTTAGATACCTGAGTGCACTTTTTTCAGTTAGTCCTAACTTTTAAAGAAGGAAAAC
 CAAGAGACATATCTGGTGACGTGTTGCAGTATGAACTCTGGTTGCAATCCCTCCCCGTC
 CCACACTGCCCCCATTTGAGTACACCGCACAAGTCAAACGCTAGGAAGTTTGAATAAAA
 CCAATTTTCTAACTTGTTGCTCATTTGTTGTAACCTCAATAAAGCAAAGACTAAACATTT
 TT

Gene 92. >ENST00000328524 cDNA sequence

CTGGAGAAGATTGGGGAAGGCACCTATGGGACAGTGTTCAAGGCCAAAACTGGGAGACT

FIGURE 1 (CONT'D)

CATGAGATTGTGGCTCTGAAATGGGTGAGGCTGGATGACAATGATGACGGTGTGCCGAGT
TCTGCCCTCCGGGAGATCTGCCTACTCAAGGAGCTGAAGCACAAGAACATCGTCAGGCTT
CATGACCTCCTGCACAGCGACAAGAAGCTGACTTTGGTTTTCAAATTCTGTACCAGCAC
CTGAAAAAGTATTTTGACAGTTGCAATGGTGATCTCGATCCTGAGATTGTAAAGTCATTT
CTCTTCCAGCTGCTAAAAGGCCTCGGATTCTGTACAGCCGCAATGTGCTACGCAGGGAC
CTGAAGCCCCAGAACCTGCTAATAAACAGGAATGGGGAGCTGAAATTGGCTGACTTTGGC
CTGTCTCGAGCCTTTGGGTCCCCATCTGCTGTTACTGAGGGAGTGGTCACACTGTGGTAC
CACCCACCAGATGTCTTCTTTGGGGCCAAGCTGTACTCCACGTCCATTGACTTGTGGTCA
GCTGGCTGCATCTTTGCAGAGCTGGCCAATGTCTGGATGGCCTCTTTTTCCAGGCAATGAC
GTCGATGACCAGTTGAAGAGGATCTTCTGGCTGCTAGGGATGCTCACCAGGAGCAGTGG
CCCTCCATGACCAAGCTGCCAGACTATAAGCTGTACCCATTGTACCCGGCCACAACATCC
CTGGTGAACATCGTGCCCAAACCTCAGTGCCACAGGGAGGGATCTGCTGCAGAATCTTCTG
AAGTGTAACCCCTGCCAATGTATCTCAGCAGAAGAGGCCCTGCAGTACCCCTACTTT

Gene 93. >ENST00000297857 cDNA sequence

ACAGGTGAGAGTTGACTCCCTGAAAAGTGCAGCCGGTTTGAAATGCAAGATGGCGGCGGC
GTGGCGCTGAGAGGCGCGGCGGCCCTGCAGGAGAAGACAGACTGCTGCTTTGGACCTGT
TGGTAATGATGGCCTGAGCTAAACATCTAACTAGAAGGGATACCCCTTCCATTTCAAAGAA
CAGAATGCTAAGGAAGCTGTGGCAAGTGATTGGAGTTGTGCTTCAAAAATTTAGAAATT
CAGCAGTATTTTATCTGCCAACAATAAGCTCTTTACTTGATTGCACCATGAGAAAGCTGC
TAATGAGACTTGTGAGCACAATAAGCTCTTTACTTGATTGCACCATGAGAAAGCTGC
GAAGAACACTGAACAGTTTTTAAGCCTCGATGCTTTTTAATCACCCTGAGCTTTTCTCA
TAACATCAGAATGGCAAGCAGGCGAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGA
ACAAGATCCAGACCTTGAGTTGATATCAGATTTGGATGAAGGTCCTCCTGTGCTTACACC
TGTAAGAAAACACCAGAGCAGAGAGTATCTCAAGTGATGAAGAGGTTTATGAATCTGTGGA
TTCAGACAATCAGCAAAAATAAAAAAGTTGAAGGTGGATATGAATGTAAATATTGTACTTT
TCAAACCTCAGATCTAAATATGTTTACTTTTTCATGTGGATTTCGGAACATCCCAATGTAGT
GCTAAATTCATCCTATGTTTGTGTGCAATGCAATTTTCTTACCAAAGGTATGATGCACT
TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTTAAGTTGACTATGGTGAA
ACGTAATAACAGACAATCTTTGAACAAACAATAAATGATCTGACTTTTGATGGTAGTTT
TGTTAAAGAGGAGAATGCAGAGCAAGCAGAATCTACAGAAGTTTCTTCTTCGGAATATC
TATCAGTAAAACCTCCTATCATGAAAATGATGAAAAATAAAGTGGAAAATAAACCGGATTGC
AGTTTCATCATAACTCAGTTGAGGACGTTTCTGAAGAGAAAGAGAATGAAATCAAACCGA
CCGTGAAGAAATTTAGTAAATCCAAGTTCTTCAGCTTCTGAATCTAATACAAGTACTTC
CATTGTAAACAGAATACATCCAAGTACTGCCAGCACGGTAGTGACACCAGCAGCAGTTCT
TCCTGGATTGGCACAGGTGATAACTGCTGTATCTGCTCAGCAGAATTCTAATTTGATTCC
CAAAGTCTTAATCCCTGTTAATAGCATTCCACCTACAATGCTGCATTGGATAACAATCC
CCTTTTACTTTAACACCTACAACAAGTTCCCTTACCCAACAATGTGAGAAATTACAGTTCT
TTCTGCTCAAGCAAAATATACAGAGGAACAGATCAAGATATGGTTTTTCAGCCCAACGTTT
AAAACATGGTGTTAGTTGGACTCCCGAGGAAGTAGAGGAGGCAAGAAGGAAACAATTCAA
TGGAACAGTGCATACTGTACCTCAGACCATAACTGTTATTCTTACACACATTTCCACAGG
GAGTAATGGTTTTACCATCTATTTTACAGACATGCCAAATAGTTGGTCAGCCTGGTCTGGT
CCTTACTCAAGTGGCTGGAACAAACACCTTGCCAGTTACAGCACCTATAGCCTTGACAGT
GGCAGGCGTTCCAAGTCAAAATAATATACAGAAAAGTCAGGTACCTGCTGCTCAGCCTAC
TGCAGAAACAAAGCCAGCAACAGCAGCAGTTCCAACCTTCTCAAAGTGTCAAACATGAAAC
TGCAATTGGTAAACCTGATTCAATTTGGCATTTCGGGCAAAAAGACAAAAGAGCAACTGGC
AGAATTAAGGTTAGCTACCTTAAAAATCAGTTTCCCATGATTGAGAAATTATCAGACT
TATGAAAATAACAGGCCTGACGAAAGGAGAGATTAAAAATGGTTTTAGTGACACAAGGTA
CAACCAGAGAAATTCAAAGAGTAATCAGTGCTTACATCTCAACAATGATTCTCTACCAC
CATTATTATAGACTCCAGTGATGAAACACCGGAATCCCCAACTGTTGGTACTGCACAGCC
TAAGCAATCCTGGAATCCTTTTCTGACTTTTACTCCCCAAAAGTTTAAAGAGAAAACCTGC
AGAGCAGCTTCGTGTCCTTCAGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGA
ATTAAATAGGTTAAGGGCACAAACCAAACTTACCAGAAGAGAAATCGATGCTTGGTTTTAC
AGAGAAGAAGAAATCAAAGCTTTAAAGGAAGAGAAAATGGAAATAGATGAAAGTAATGC
AGGTAGTTCCAAAGAAGAAGCTGGAGAACTTCTCCTGCAGATGAATCTGGTGACCTAA

FIGURE 1 (CONT'D)

GTCAGGGAGTACAGGCAAGATATGTAAAAAACACCTGAGCAGCTGCACATGCTTAAGAG
TGCATTTGTCCGGACACAGTGGCCATCACCAGAAGAGTATGACAAGTTGGCCAAAGAAAG
CGGGCTTGCTAGAACAGACATAGTTAGTTGGTTTGGGGACACCCGTTATGCTTGGAAGAA
TGGAAACTTGAAATGGTACTACTACTATCAGAGCGCCAATTCAAGTAGTATGAATGGTCT
GTCTTCCCTTAGGAAAAGAGGGAGAGGGAGACCCAAAGGACGGGGAAGAGGAAGACCGCG
TGGGCGGCCTAGAGGAAGCAAAAGAATTAACTCAACTGGGACAGGGGACCATCACTCATAAA
ATTTAAACTGGAAGTGAATACTTAAGGATTATTACCTGAAGCACAAGTTTCTTAATGA
GCAAGACCTTGATGAACCTTGTTAACTCAATATGAGGCTATGAGCAGGTGAGAGAGTG
GTTTGCAGAAAGACAGAGAAGATCAGAATTAGGTATAGAATTATTTGAGGAAAATGAGGA
GGAAGATGAAGTTATTGATGACCAGGAAGAGGATGAAGAAGAAAAGATGATAGTGACAC
TTGGGAACCTCCACGACATGTGAAACGGAAGCTGTCTAAATCAGATGACTGAAATCTGCC
TAAACGTTGAAGGAGAATCAATCTTCAACTCAAGATGTCTGATTTACTGTGAATTTGC
CCAATCTTTGATGACATTGAAAACGTTTTGGGGCATACACACTCAAAAAGCAGGATCCAA
TACCCAAAAGAAATGGAACCTTAATGTTGTGCCAAAGTTAACTACTGCAGTTGGTGGAAG
TTCTGCAATGTAAATAGAACACTAATTAATAAACAACCTTGTAATAATGCAATTTAAATTT
TAATACAGTACATTTTTCTTCTAATATGATGGAGACATTCTGAATCTTAGACTTTCTGAG
GGGGTTTAATGACCACTAGAGCTTGTCTCATATTCACTCCAGTTTAATACTGTATGTCT
AGTAAGATGGGCTATATATTGCCTCTATTCTTTGAGATGTGATTAAGCTTAGAACTTTGA
CCAAAATTTTACAGTAAAATTTGTTAGAAATGGGTAAAAAAGGAGGAGGAGGAGGAGGAGG
CTGATTTATTACTATGTCTTATTTATCAGACCTGCACTAAGATTAAAAGTTGTGCATGG
GCTTATACAATTTCAAATGTAAAAACAGCCTATTTATATATGTTGAAACAATAAGATTTT
ATGGTTTCACTGGCCCTTAATAATTGGATCCTTCATTAAACACATCCATGAATACCACTG
TTTCTACTGTTACTTGTTCATTAGAAGCTGATTTGCTTTTTATTAACTGCAGGAAATT
AATTCTGAAGAAGGAAAAGAACTGACATGGTAATTTGGATAGGGTGAAGCTTTGAAATA
AATACTGCACCAAAAATGTGAAAAAGAATCACGTAGTAAATGTATACTTAGTGTTTTCTT
ACAATCGTGGAAATCAGAAATGTTTATACAGGTGTGAGATCAGAATTTTAAAGAGTTATC
TTTCAGTGAAATTTTATAACAGTTTTCAGTGAATAGAGAAAAATTTCTGAACCTGATCATAA
TGAGTTAAAAGTTAGCTTTTCACTTATGAATCATGGGAGTGTTAACTGTTAACTCTTGCC
GTATCAGGAGACTGAAAGTTCACTAATTTACAACTTTGTAAAGACTGGTGCTGTTCA
TTCATATTGGGAAGAACCCTTTCTTTGTGACCATAGGACCATTTTTCAAATGCGCTTT
CTTCGTAGAAGAAATGTTGAGTTTAAATAGCTTTGGATTTTAAACATGTTTTCTGAATGA
CCAGATGTAGGCTTAGCCAGTTTATTTTCTCTAATTTAATGGATAATAAATATTAAGCTC
TTGGTTAAATGTTTTTCAGCCATTGAAAATGTTATGAAAAAGCCTTGAATATGCATGCTG
CTTTCAATTTTATAAACTTTTTATTTTTTAACTATAGCTTTATTAGTAATCCAAAATGC
TGCAATGTAGCTGATTTCTCACTCAGACAGCTGGCTTTGTGGGTGGCTTTTTTCACT
ACTGTAACTTTTTTAAAAAGAAGCAATGTAAAGACCGTAATGCACTAAGCTTTTTTTTT
TTTCTTTTACACGTTTAAAACTTCTTAAAGCACTCTGTAATATAATGATTAAATTGCTC
CCTTTTATAAACATTGCTAATGTGGTCTGAGTTTTGTTTGACAATAATTTAATGTTCTC
AAAATTTGAAATGTCAAGTATTAGAAATGAAGCCTTTGAATATAGTTGTTTCCCTTGCAA
TATGTTAACTCTGTGTAGCTGTATATACTATTAATTTCCCTCATCTCTTTTATAGGCCT
GATAAACTCTTCTCTGACGTTTGCTAGCTTTTAAATATATTTATTTGACAGAGCAAAAG
AACCTCTTCTGGTTGATTGTGACCTTGAATACAAAATAAAAGTAGTGATTAG

Gene 94. >ENST00000276704 cDNA sequence

GCTTCCTCGTTGCCCCCGCCGCGGGCGCGAGATGGATTCCGGGTGCTGGTTGTTGCGCGG
CGAGTTCGAGGACTCGGTGTTTCGAGGAGAGGCGCGGAGCGGCGGTGAGGACCGCCCGCTC
CTACTGCGCCAAGCTCTGCGAGCCGAGTGGTTTTATGAAGAAAAGAGAGAGTATGA
TGTTGAAGTGCTGACTCTCAAGAAATTCAGGAGACCTGGCCTACAGACGACAAGAGTA
TCAGAAAGCACTGCAGGAGTATTCCAGTATCTCTGAAAAATTGTCATCAACCAATTTTGC
CATGAAAAGGGATGTCCAGGAAGGTGAGGCTCGGTGTCTGGCTCACCTGGGTAGGCATAT
GGAGGCGCTGGAGATTGCTGCAAACTTGGAATAAAGCAACCAACACAGACCATTTAAC
CACGGTACTCTACCTCCAGCTTGCTATTTGTTCAAGTTTGAGAACTTGAGAGAAAACAAAT
TTTCTGCCTGCAGAACTGATTTCTTTGCATCCTTTTAAATCCTTGGAAGTGGGGCAAAT
GGCAGAGGCTTACCTGAATCTGGGGCCAGCTCTTTCAGCAGCACTTGCGTCATCTCAGAA
ACAGCACAGTTTACCTCAAGTGACAAAATATCAAATCCTTCTTTCCACACTCAGGAAA

FIGURE 1 (CONT'D)

AGACTGTCTTTTGTGTTTTCTGAAACCTTGCCCTGAGAGCTCTTTATTTTCTGTGGAAGC
GAATAGCAGTAATAGCCAGAAAAATGAGAAAGCTCTGACAAATATCCAAAACGTATGGC
AGAAAAGAGAGAAACAGTGTTGATAGAGACTCAGCTGAAAGCATGTGCCTCTTTTATACG
AACCAGGCTTCTGCTTCAGTTTACCCAACCTCAGCAAACATCGTTTGCTTTGGAGAGGAA
CTTAAGGACTCAGCAGGAAATTGAAGATAAAATGAAAGGGTTGAGCTTCAAAGAAGACAC
TTTGCTGTTGATAGCTGAGGTTATGGGAGAAGATATCCAGAAAAAATAAAGATGAAGT
TCACCCAGAGGTGAAGTGTGTTGGCTCCGTAGCCCTGACTGCCTTGGTGACTGTATCCTC
AGAAGAATTTGAAGACAAGTGGTTGAGAAAGATCAAAGACCATTTCTGTCCATTTGAAAA
TCAGTTCCATACAGAGATACAAATCTTGGCTTAGTGGGTTATAAAAAACAAAACCACAAA
TATCTTGTAAGTGTATTAATTGTCTTGTCTTACTTCAGACAGGATCCATTGCTAATCATGG
AGTATAAATGATTATTTATGTTTTAT

Gene 95. >ENST00000318462 cDNA sequence

GATGACTTGGAGAACAGTCACTTCCTCTTTCTGGGCTACAGTTTTCTCATCAGTAACTGA
AGAGCTTGCACTACCTTCAACATTCCTTCAGGTGAGGACTTCTCTTTGATCACTGCTATG
GTTTGAATGTGTCTCCTAAAGTTTCATGTGTTGGAAGCTTGATCCCAGTGCAAAAGTGTT
GGGAGGTGGGGCCTAATGAGAAGTAATTAGGCCATGAGTATTCTGCCCTCATGTATTAT
GAGATTAATGTCAATTATCATGGGAGCGGGTTTGTAAATGAGTTTCGGCCCCCTTCTTTCT
CTCTCTTTCTTCTGCCATACAGTATGGGATGCACAGTGCAAGGTCTTACCAGATACTG
GCACCATGCTTTTGGACTTCTCAGCCCCCAGAACCATGAGCCAAATAAATTTCTGTTTAT
TATAAATCACCCAGTCTGTGGCATCCTGTTAGAGCAGCATAAATGGACTAAGATAATCCC
TATAAAGAGTGGCAACAGAACAGTTCCAGCTCACTGGCAGAATCCTATGATCAACTAGT
AATGTCTGCCAGGGAAGGAGGATGAGTGGCACTAACATGTACGGTGTGTTTGCTCACTGT
TCTACAGGATTCAACTAGAATCTCTGGGTCTGTGTGAAGACCAAGAGCTGGGAACAGAAG
CAGGGCTCTAGAGGGAAAAGTTTCTTTCGGATTCTTTTTTTTTGTTTTGTTTTAAAGAGC
TGCTCTGTGAGAAGACAAGGAGAAAATGGTCCCTACAGGATACTCACCTCTGTCTCAGGG
AGACACTCAAGCATTTATTCAACCAAGAAAGAGAATTAGTTCCAGGTGAAAGGAGAACCC
CAGAATACCCACCTACTTTTTAAATTTCTCCCTATGCATATTTCAGGAACCAATCAGAGGA
TCTGTAATGCGCTGTGAGTAGAAAGGGAAGGGGAATGGGAAAGAAAAAAGTGAAGCTTGG
AATGGTGGAAAGTACATGGGCTCTGCCATTTACCAGCTAAGTGATCTTGGGCAAGTAACT
TGACCTTTCTGAGCCTCGGTTTTCTCTTTGGTGAAATGAGGACTAATAATCCATTTCTCC
CTCAGTACAGACAGCCAGCATGCAGTGAGCACTCAGCGATGGCCAAGTATGGGAGAAGCC
ATGCTGGAATGAACATGTGGGACCATTTTGTGCAGTTTCTCAGCGCCAACACTGACTGGT
CCCCTGGGCTCGTGGGCCCGCCGCGCAGCCTCGGCTCGTTCTCCAGACAGTGTTCCAAGAAG
CCACTTCCAGCGAGGAAGCGTTGGCCTGAGAACTGGAACCTCTGCGGTCTCTGCAAAACAC
GACAATGACAAACACTTGAGAGGGCATGGGAGAAAGGAGCTCCTTCATAGGGCAGGGAGG
GGTGGGCACTTGGGTGTGACCAAGGAGAGGAGGCGCGCCTGGTCAACAGCTCTCCCTGGC
CCGTGTCCAGCTCCCTCCTCACACAGAGAGGGGGCGCATCTCAGGGATGGCATCTTTCC
CCCCACAGGGAAATTTCTTATCTTTGAAACAGCATGGGAATCGAGGCACCCAGGAGGGGA
GCAGAGGCAGGCAGGCCTCCTTCAGGCCCATCCTCCAGCTGGGCTGGTGGTGCCAGGGAG
GCTCCCTGCTTGGTAACAAAGGCCTGAGGGAGAGTTGCGAAACCCAGCAGGAAAGCCGGC
TCACCTTCGCCTCCCCCTGCGGCTGGGAGGAGAGGAAATATCCCATGGCTGACTGTGCCA
AGGAGGTGTCTGAGCCAGCCCTCCCGGCCGAGGGCAGGGCAGGTGGCCCTGAGAGATAA
GCCAATCCCGCAGCTGCAGATGAGGAGTTCTGAGAAGCATTGCTCAGGACAGCGGTAAAT
CACTTCTTGAGGTTGCCCTGCACGCCGGTCTGGGAGCAGGCGGCCTCCCGGGGTGCGG
GAGCCCCACTCCTCCGTGGTGTGTTCCATTTGCTTCCCACATCTGGAGGAGCTGACGTGC
CAGCCTCCCCCAGCACCAACCCAGGGACGGGAGGCATGAGCCGGTCAAGGCACCTGGGCAA
AATCCGGAAGCGTCTGGAAGATGTCAAGAGCCAGTGGGTCCGGCCAGCCAGGGCTGACTT
TAGTGACAACGAGAGTGCCCGGCTGGCCACGGACGCCCTCTTGGATGGGGGTCTGAAGC
CTACTGGCGGGTGCTCAGCCAGGAAGGCGAGGTGGACTTCTTGTCTCGGTGGAGGCCCA
GTACATCCAGGCCCAGGCCAGGGAGCCCCCGTGTCCCCCAGACACCCTGGGAGGGGCGGA
AGCAGGCCCTAAGGGACTGGACTCCAGCTCCCTACAGTCCGGCACCTACTTCCCTGTGGC
CTCAGAGGGCAGCGAGCCGGCCCTACTGCACAGCTGGGCCTCAGCTGAGAAGCCCTACCT
GAAGGAAAAATCCAGCGCCACTGTGTACTTCCAGACCGTCAAGCACAAACATCAGAGA
CCTCGTCCGCCGCTGCATCACCCGGAAGTCCAGAACATTTCCATCCGGAGTGTGGAAGG

FIGURE 1 (CONT'D)

AGAGATATACTGTGCCAAGTCAGGCAGGAAATTCGCTGGCCAAATCCGGGAGAAGTTCAT
CATCTCGGACTGGAGATTTGTCTGTCTGGATCTTACAGCTTCACCTGGCTCTGCGGACA
CGTGACACCGGAACATCCTCTCCAAGTTCACAGGCCAGGCGGTGGAGCTGTTTGACGAGGA
GTTCCGCCACCTCTACGCCTCCTCCAAGCCTGTGATGGGCCTGAAGTCCCCGCGGCTGGT
CGCCCCGTCCCGCCCGGAGCAGCCCCGGCCAATGGCCGCCTTAGCAGCAGCAGTGGCTC
CGCCAGTGACCGCACGTCTCCAACCCCTTCAGCGGCCGCTCGGCAGGCAGCCACCCCGG
TACCCGAAGT

Gene 96. >ENST00000276699 cDNA sequence

CTGCGGCTGGGAGGAGAGGAAATATCCCATGGCTGACTGTGCCAAGGAGGTGTCTGAGCC
AGCCCTCCCGGCCCGAGGGCAGGGCAGGTGGCCCTGAGAGATAAGCCAATCCCGCAGCTG
CAGATGAGGAGTTCTGAGAAGCATTGCTCAGGACAGCGGTAAATCACTTCTTGAGGTGC
CCTGCACGCCGGTCTCTGGGAGCAGGCGGCCTCCCGGGGTGCGGGAGCCCCACTCCTCCG
TGGTGTGTTCCATTTGCTTCCACATCTGGAGGAGCTGACGTGCCAGCCTCCCCAGCAC
CACCCAGGGACGGGAGGCATGAGCCGGTCAAGGCACCTGGGCAAATCCGGAAGCGTCTG
GAAGATGTCAAGAGCCAGTGGGTCCGGCCAGCCAGGGCTGACTTTAGTGACAACGAGAGT
GCCCCGCTGGCCACGGACGCCCTCTTGATGGGGTTCTGAAGCCTACTGGCGGGTGCTC
AGCCAGGAAGGCGAGGTGGACTTCTTGTCCTCGGTGGAGGCCAGTACATCCAGGCCAG
GCCAGGGAGCCCCCGTGTCCCCAGACACCTGGGAGGGGCGGAAGCAGGCCCTAAGGGA
CTGGACTCCAGCTCCCTACAGTCCGGCACCTACTTCCCTGTGGCCTCAGAGGGCAGCGAG
CCGGCCCTACTGCACAGCTGGGCCTCAGCTGAGAAGCCCTACCTGAAGGAAAATCCAGC
GCCACTGTGTACTTCCAGACCGTCAAGCACAAACATCAGAGACCTCGTCCGCCGCTGC
ATCACCCGGAAGTACGAGGTCTGGTCACTCTGATGGATGTGTTACGGATGTGGAGATC
TTCTGTGACATTCTAGAGGCAGCCAACAAGCGTGGGGTGTTCGTTTGTGTGCTCCTGGAC
CAGGGAGGTGTGAAGCTCTTCCAGGAGATGTGTGACAAAGTCCAGATCTCTGACAGTCAC
CTCAAGAACATTTCCATCCGGAGTGTGGAAGGAGAGATATACTGTGCCAAGTCAGGCAGG
AAATTCGCTGGCCAAATCCGGGAGAAGTTCATCATCTCGGACTGGAGATTTGTCTGTCT
GGATCTTACAGCTTCACCTGGCTCTGCGGACACGTGCACCGGAACATCCTCTCCAAGTTC
ACAGGCCAGGCGGTGGAGCTGTTTGACGAGGAGTTCGCCACCTCTACGCCTCCTCCAAG
CCTGTGATGGGCCTGAAGTCCCCGCGGCTGGTCCGCCCCGTCCCGCCCGGAGCAGCCCCG
GCCAATGGCCGCCTTAGCAGCAGCAGTGGCTCCGCCAGTGACCGCACGTCTCCAACCCC
TTCAGCGGCCGCTCGGCAGGCAGCCACCCCGGTACCCGAAGTGTGTCCGCGTCTTCAGGG
CCCTGTAGCCCCGCGGCCCCACACCCGCCTCCACCGCCCCGGTTCAGCCCCACCAAGGC
CCTTGGGGAGCCCCGAGTCCCCAGGCCACCTCTCCCCGCGGCCCCACGACGGCCCCGCC
GCCGCTGTCTACAGCAACCTGGGGGCCTACAGGCCACGCGGCTGCAGCTGGAGCAGCTG
GGCCTGGTGGCGAGGCTGACTCCAACCTGGAGGCCCTTCTCTGCAGGCCTCCCCTCACTTC
TGAAGGTCCCATCCCCTGCTGCCCTCCGCGAGGCCAGGGCTGGGCACTCCCTGAGACCCA
AAGACCCACCTCAACGACGAGTGGCGTTGAGCCACTTCCCTTTGAAAAGACACTCAAAAT
CACTGCCATGGTTCAATGTTCCAGGCCCCAGGCCATCCACTTGCCGGCCCCCACCAGTT
CTTGGGTTCCCCGCTCTAGTTTGACCTGTGCAGCACATTCCAGAAGGTTCCAGGGAGGTT
GTGGGGCAGCTAGAGGACAAAATCATGAAAACAGAGTCCCTGTCTTCCAGAGATCATCCG
GGGCTTTAATATTAATGGCCCCCAAACTCCGTAAGAAGCAGGAAATGCAGCCCAAGTTT
TACAAATGGGTAAACAGAGGCACTGAGAGATAGATGGTAGTTTGGTACTTCTGGTTCCCA
GTGCCCAGGAATGGTCCACTCCCAAGAAATTACAGAAAGAAAGACTGAGGAGAAGGTGTG
GGAACATTCTGGATGTTTCGGGAGAGTTGGGGAACTCCTCCTCTTAGGAAAGGCTAATA
CTAGGGTATCCTTGGGCCCAATGAATTAGGGGTGAGGCCCCAGAACCCGTTATCTATGAG
TTGTATGGGGGAGCCATCTGAAGCTGTAGCCACCAGGGATGCAGCTAGCTGAGGAGTTTG
GGGTGTTGGGTTGGACAAGGCAGGTAGTAGACTCAGATTCTTGCTTCAAAGAGCCTTGG
GCTGGCCTGGAGGTCCCTGGAGTCTAGACTGGACCTAGGAGCTTGAGTTGTGAGGGGCCA
GGAAGTGGCCCCACTGCAGTGCCAGGCCAGTCTTGAGCAGCAGGGAGGGCTCAGCTGTCC
CCAGATCCAGGTGCCTCTGACCAGCCTGGTCACTCCTGAGGAATAAATGCTGAACCTCA
CAAGCCCCATCATTCATTTCTTCTCAATTACAGTGCCCTCTTTGTTTCTGGGGTGGAA
CTAGGTCTGAGGGCACAGCCTAGCTGAGTGCAAAGAAATATAGGATGCTTAGAAAGCAT
ACAGGAGGGGCCAGGCGTGGTGGCTCATGCCTGTAATCCAGAACTTTGGGATGCCAAGG
TGTTTGGATTACCTGAGATCAGGTGGATTACCTGGTCTCGAGACCAGCCTGACCAATATG

FIGURE 1 (CONT'D)

GTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGGCTGAGACAGGAGAATTGCTTGAA
CCCAGGAAGCAGAGGTTGCAATGAGCTGAGATTGCATCACTGCACTCCAGCATGGGCAAC
AAAGCAAGACTCCGTAC

Gene 97. >ENST00000325064 cDNA sequence

TGCGAGCAACAGATCCGGACGCGCGAGCTGACCCGCTCTGCTGTTGGGCGATTTTTTTT
TAATTGCAGAAAAATTTATTAAATTGGAAAATCTTGCGTTTTTCAATGGCGCTGGCCCCG
GGTCAGCGGGCGATTTTCTCTGCATCAAGATGGGCTTTGCCGTTTCCGTAGTGGGCACCA
GTGGTGGCCTGATTGTCTAGTCTTCTCCCGGCATTTTTTAAGGCCAGGAGCCGAGCGCTGCT
TGTAGGCGAATACCTACAGAGCGGTTTGGCTTTTTAAATTACTGTTATTATTTTGGGCA
GAGAACAGTCCGTCTGGTGCACCCGTCCTCGCTGCAGAAGAGGCTGCGAGTCCGAGGTG
GGTCTCTCGGAAGGTGAAATTCCTTCTGGGGTGAGCGAGCCCCGGCCCCGCGCGAGTCC
AGCGGCCCCGCGTGTGTGCCCTCGCCCTGCCGGAGCCGGGAAAATGGAGGCTGTGATTGA
GAAGGAATGCAGCGCGCTCGGAGGCCTCTTCCAGACCATCATCAGCGACATGAAGGGGAG
CTATCCAGTTTGGGAAGATTTTATAAACAAGCAGGAAAGCTGCAGTCCAGCTTCCGAC
AACAGTAGTAGCAGCAGCTGCCTTCTTGGACGCCTTTCAGAAAGTGGCTGACATGGCCAC
CAACACACGTGGTGGGACCAGGGAGATTGGATCTGCTCTCACCAGGATGTGCATGAGGCA
CAGAAGCATTGAAGCCAAGCTGAGGCAGTTTTTCGAGCGCTTTAATTGATTGTCTGATAAA
CCCATTCAAGAACAGATGGAAGAATGGAAGAAAGTGGCCAACAGCTGGATAAAGACCA
CGAAAAGAATATAAGAAAGCCCGCCAAGAGATAAAAAAGAAGTCTCGGATACGCTGAA
ACTGCAGAAGAAAGCAAAAAAGGGAGAGGTGATATCCAGCCTCAGTTGGACAGTGCTCT
CCAAGATGTCAATGATAAGTATCTCTTATTGGAAGAAACAGAAAAGCAGGCTGTCCGGAA
GGCTTTGATTGAAGAACGTGGCCGATTCTGTACCTTCATCTCTATGCTGCGGCCAGTGAT
TGAAGAAGAAATCTCAATGCTAGGGGAAATAACCCACCTTCAGACCATCTCGGAAGATCT
AAAAAGCCTGACCATGGACCTCACAACTGCCCTCCTCAAGTGAACAGGTGATTCTGGA
CTTGAAAGGTTCTGATTACAGCTGGTTCGTATCAGACGCCACCTCTTCCCCCAGCACCAC
CATGTCCAGAAAGTCCAGTGTCTGCAGCAGCCTGAACAGTGTCAACAGCAGTGAATCCCG
GTCCAGCGGCTCCCACTCGCATTCCCCCAGCTCACATTACCGCTACCGCAGCTCCAACCT
GGCCCAGCAGGCTCCTGTGAGGCTGTCCAGCGTGTCTCCCATGACTCAGGATTCATATC
CCAGGATGCCTTCCAGTCCAAGTACCATCCCCATGCCGCCAGAGGCCCCCAACAGTT
GTCTAACGGGTTTTCTCACTATAGTTTATCAAGTGAGTCCACAGTGGGGCCACGGGTGC
AGGCCTTTTCCCTCATTGCCTGCCTGCCTCCCGCCTGCTCCCTCGGGTCACTCTGTCCA
CCTTCCAGACTACGCTCATTATTACACCATTGGGCCCAGCATGTTCCCGTCATCTCAGAT
CCCTAGCTGGAAGGACTGGGCTAAGCCTGGGCCCTATGACCAGCCTCTGGTGAACACCCT
GCAGCGCCGCAAAGAGAAGCGAGAACCGGACCCCAACGGGGGAGGACCCACTACCGCCAG
CGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCACGGAGCATGACTGTATCGGCTGC
CACCAGGCCTGGTGAGGAGATGGAGGCTTGTGAGGAGCTGGCCCTGGCCCTGTCTCGGGG
CCTGCAGCTGGACACCCAGAGGAGCAGCCGGGACTCGCTTCAGTGCTCCAGCGGCTACAG
CACCAGACAACCAACCCCTGTGTCTCTGAGGACACCATCCCTTCCCAAGTTTTCAGATTA
TGATTATTTCTCTGTAAGTGGTGACCAGGAGGCAGATCAGCAGGAGTTCGACAAGTCCTC
CACCATTCCAAGAAACAGCGACATCAGCCAGTCTACCGACGGATGTTCCAAGCCAAGCG
TCCAGCCTCAACTGCTGGCCTCCCCACCAACCTGGGACCTGCTATGGTCACTCCAGGGGT
TGCAACTATCCGACGGACCCCTTCCACCAAGCCTTCTGTCCGCCGGGGAACCATTTGGAGC
TGGTCCCATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCCAGACCT
CCCAGGGGTGTTGCCAGCCCTCCAGATGGGCCAGAAGAGCGGGGGGAGCACAGCCCTGA
GTCGCCATCTGTGGGTGAGGGCCCCCAAGGTGTCAACAGCATGCCCTCCTCAATGTGGAG
CGGCCAAGCTTCCGTAAACCTCCACTTCCAGGCCCGAAGCCAGTATCCCTGAGGAGCA
CAGACAGGCAATTCCAGAAAGTGAAGCTGAAGACCAGGAACGGGAACCCCCAAGTGCCAC
TGTCTCCCCAGGCCAGATTCCAGAGAGTGACCCTGCAGACCTGAGCCCAAGGGATACTCC
ACAAGGAGAAGACATGCTGAACGCCATCCGAAGGGGCGTGAACTGAAGAAGACCACGAC
AAACGATCGCTCAGCCCTCGCTTTTCTTAGGTTCAAGAAATGCGCCGGTGGGGAATG
AACTGTTTCATTAATAAAACCTAATTTGTCTTGATCCATTCCACTCTATAATAAAACAAA
AGATTTTGTAGGCAACTCGGAATATAGCTCTTTTGAAAGTACTCGACACCTTTAGATAAG
AATTAACCAACCTATGTAAGTACATAATCTTGATCTTTTAATTTGTAAATATTGACA
ATTTTCTTCTGCACATTTTAATCTTAGTTTCCCTTTTGATTTTTCTGAAGGTGCCAAAT

FIGURE 1 (CONT'D)

TCCATTTAACTTTTTTACAAGTCTTTGTAAAATTTTAAATGCATAAAGGGGGTTGGGGCA
 GGGGAACCACGAAGTAGTTAATTTTAGAAAAGGATTTACTATACTTCACTCTTCTTTTTT
 TTTCCCCACAAGCTTTTGTAGATGCATTGTAGTAGTCTAGCTTAGAAGCAAATGCAAGTT
 ATTTTAATGTACAACTAAATGGGTAAAGAGGTAAAATCTTCATTTAAATATACTATGTTT
 TGGATGAAAAGAGCAGGAGTAACAATTGATGAGCAATATTGAGAGTGAAGTAAATCTGGA
 AATGGTAGACTGTGTTGGGATTGGGGGGAGGGCCATGGGAGGGGTACATCGTCAACATAG
 CCGATCCTGTTACATTTAAGAGTAGCCTCGTAGGTTGAATTTCTTCTGGTAGCTTCATGG
 TAAATGCATCCGAATAAGCCATACTGGATTGCAGTGTGTTGTTTCTGTAGGGTGTGTTAAGG
 ACTTGACTTCCTTTCTCCCATGATTCTCTGGACTGCACACAGCACCCACAACCAGCCCC
 ATGCATGCTGCTGCCTCTGGGCAGTCGTAGAATCTCCCACTTCAGTTTCTCGTTGATTGT
 ACTCACCTTTATGGAATCCAAATACATCCAAAAGGGTAAGGCAGTTTTAAAAATGTGAAA
 ACATTTAAAAATGATAATAGCAGGGAATTCTTAGATTATAGTAAATGCCTTTTACTTAAC
 TGTGCCCAGCAGGCTGGGTGCGTTAAAAAGCCCAAGTATTTTGAAAAAACTCGAACAGAT
 TTGACAAGGGTAGCCAGCTTGGAGTCTAGCAACTTGCCAATGTGTTTACCAATCTGGGGG
 CTTGTTTTTCTTTCTTTCTTTCAAATAAATGGCAGTTAACTGGCTTTACAGTAAACATTG
 AAGAGAGGAGGATTTGTTTATTGTCACTGGGAATCTGACCACTATACTGTCTTTTTTTTG
 TATTCTGGGTAAATGTTTTTTTGAAAAGATTTGTCTTTTCTAAGTGGAAGTTAAATTTGT
 TATACTGCCCATCCCCTAAAGCCAACAGAGATTTGTAGATTTAAAGGGATCACATTTGAA
 GACAATAGTGTGTTAAGAAAGCAAGCAAGTCCCTTAGCAGTCAGGTATAACAGGGGCACAT
 TTCTGACCGAACCTCTCAAGGCAGAGGAGGAGTTTGGTGGGTTTCATACACCTGCAGA
 TTCCTGTTGGCTCTAACCTCAATTACCTAATCTTATGCTTTAACACATAACTGCATTGG
 ATGTGAGAGTAACGTACCGTATGGTCATTGTTCTATATATTAACATTGAACACTGCTGCG
 ATTGCTCAAGGACATTTTATGTTACGGCTTTAAAGCAAAGGCATGATTATTAGAAACTAT
 TTAAGCTTTTTTCTTTGAAAAACAAGCTCCTTTTACAGAATATAAAACAACAGTAGTGCCT
 GTGGTTTACCCACCAATCTTGATGACTAAAAGTAGCTGATGCATTGTGCATATGATGCT
 TGAGATGGTTTTTTGCAAAAGCAGAAATCGCTGCAAGGTAATCACAATAGATAAAAGTGGT
 ATTTTAAACCTTTGAAATAAATGGATGTAACCTGTACCTTGGTACAGCTTTTCACTTGTTT
 AGTTTTTAAACGTTAGTATAATCTGAATAAATAAAATGTTGCCAAATTCATGTAGAAAG
 AATGTGACAACACACCTTGGGTAGTTCTGCTTGTGTTTTTGCATATTGTAAAAGCAGTGT
 CACAGCTAAAAAGAAAGAAATCGTTTCTAACAGTAAATTATTGTGCTTTAGTTGCTAGTT
 TGTACTGAGAGTTGACCTCTCCCTGTGCAGTTTTTTGTTCTAAACTTGTATAAATAACAA
 TTGTGTAATGTGTCTCCCTCCTACATTGTAACAATTGCTTCAGCCTACGTTATAAATAAA
 GAACCACTAGATT

Gene 98. >ENST00000319286 cDNA sequence

TTTCTGCCTTCCGGGTTTTGAGAGTTTAGGACCCTGGGTTGGTGGGGTCAAGGGAGAGGG
 GGTACCTTCCCTCCCGGACCGCTGGGGGTGCAGGGCGCCTTGGGTGTAGCACCCAGAACAG
 GTTTCTGATCTCTAACTTGGCTGTGATCATTGTGATGGAGCAAGAAAAAACTGTTGGT
 CTCAGATTCTAACAGCTTTATGGAGAGGGAGAGTTTGAAGGCCCTTTACAGGAGATAC
 AAGTATGAATAATTTGGAACTGTTCAACCAATAATTCTAAGGCAGATAAACTTAAAGA
 GAAACCTTCAGAATGGTCTAAAAGACATAGACCACAACATTATAAGCATGAGGATGCAAA
 AGAAATGCCACTGACATGGGTTCAAGATGAGATTTGGTGTGATGATTCTATGAGAGTGA
 TGGCAAGTCAGAGAATTGGGGAAATTTTATAGCTAAAGAGGAGGAAAAACCCAATACCA
 GGAATGGGACTCAGGAGAACATACCAATGCCTGTGTCCAGCAGAATTCATCCTTTGTAGA
 CAGACCCTATAAATGTTCCGAATGTTGGAAAAGCTTCAGTAATAGTTCTCATTTGCGTAC
 TCACCAGAGGACCCACTCAGGAGAAAAGCCTTATAAATGCTCTGAGTGTGCAAAATGTTT
 TTGTAACAGTTCTCACCTGATTGAGCATCTAAGAATGCACACAGGAGAGAAGCCCTACCA
 GTGTGGTGAATGTGGGAAAAGCTTCAGCAATACCTCCCATCTTATTATCCATGAGAGAAC
 TCACACGGGAGAGAAACCTACAAATGTCCCGAGTGTGGGAAGAGATTGAGCAGCAGCTC
 TCACCTTATTGAGCATCACAGATCACATACAGGTGAAAAACCATATGAATGTTCTGTCTG
 CGGAAAAGGCTTCAGTCACAGCTATGTCCTAATAGAACATCAGAGGACTCACACTGGAGA
 AAAACCTTATAAGTGCCCTGATTGTGGGAAGAGTTTTAGTCAGAGTTCCAGCCTCATTCG
 CCACCAGCGGACACACAGGTGAGAAGCCCTACAAATGTCTTGAGTGTGAAAAAGCTT
 TGGTTGTAATCTACTCTAATAAAACATCAGAGAATACATACAGGAGAAAAGCCTTATCA
 ATGTCCAGAATGTGGGAAGAATTTTAGTCGTAGTTCAAACCTTATTACACACCAGAAAAAT

FIGURE 1 (CONT'D)

GCACACAGGAGAGAAATCCTATGAAAGTTCTGAATATGAGGAAAGTTTGGGTGAGAACTG
CAATGTGATAGAAGAATGCAGAATCCAGTTAGGAGAGAAACCATATAGATGTTGTGAATG
TGGGAAGAGTTTTGGCCTTAGCTCCCATCTCATTAGACATCAGAGAACACATACAGGAGA
AAAACCTTACAGATGTTCTGAGTGCTGGAAAACCTTCAGTCAGAGTTCCACCCTGGTGAT
TCACCAAAGGACACATACAGGAGAGAAACCTTATAAATGTCCTGATTGTGGTGAAAGCTT
CAGTCAGAGCTTTAACCTTATCAGGCACCGGAGGACCCACATAGGGGAAAAACCTTACAA
ATGTACCAGCTGTGAGAAATGCTTCAGCAGAAGTGCCTACCTCAGTCAGCATCGGAAAAT
TCACGTAGAAAAGCCTTTTGAGTCTCCCGACGTTGGGGATTTTCCTCATGAATGGACTTG
GAAAACTGTTTCAGGGGAAATGCCCTTCATCTCTTCATTTTCCGTCTCAAATTCATCTTC
CTGAGTCCCAAAGCCTGGTTGGTGATGGTTTTTTCTTCCTTGTTGGACCATGACAATTTA
GGTATTCTGTGATTGTTGTGCTATAAAGTTTCTTTGATGTGTTTGTCAAAACATTTGGAA
AAAGTCAACCTCCAGTTTAAAGGATGGGAAGACCCCAATCACCAGGTTATTGGATCTGT
CCAGTGAGAGATTATCCACCAAGGATGAAGAAAGGAGGACTTTTAAAAATTTAAGGTAA
GATAGTAATAGCTTCAAAAGAACACATACAGAGTAATCCTGAGAGTAAGCAAAGGAACCA
TGAGAACC GAAGCTAGAATTGCTATTGAATTACTTTATTTTCTCTTCCCTTATTGGGTAG
AGATACATCATTACTGGCCTCAGGGGTTTACCCAAAGAAAGGGTATTTTTGAGCAAATAA
TGTGATTTCTGGCTATTTTTGTTGGGGGCTTAAGATTTTTTTTTTTTCAAATGCATTTTTTA
GTCACTAAAAATTAAGTGTGCTACCATCTAGAAGTATACTGTCCAGTACCATAGCCTCTA
GCCGTATGTAGCTATTTGTATTAAGATTAATTGAAATTTTAAATCCAGTTCCTCAGTCAC
ACTAGCCACTTTCTAAGTGCTCAGTAGCTCTGTGTGACCAGCGGCTACTGTATTGGATAT
TATAGAAGGTTCTTTTCATTCAAGATCATCATTCTTGACAGACCCATAAATATTTCTCTATA
AAGACTGTAGAAGTGTGTTCTGGAGGGTTTGCTCTCCAAAAGAATTGTAATATAGAGTA
GAATTGGGATAGAGTATTGAAGACACTGGGTTTAGACATTGGATATTTTAATGATTGTGT
GTTCTAATTCATGTGCTGCCAACTGAGTTATCTAGTGATATGACCTCACTGTCTTGACCA
AAGCCAGAATAGAAGGCAGGATTCTGAATTCATCTTAAATTTGCAATGAAGAGCCTT
TTCCCTAAATTTATCCCATTTATGTAATTCCTGGTCAGCTCAAGAACTGGGTTCTTTTTCTA
ATAATTAAGTCACTAAATCTGAGCCAGTGTCCAAGGACAGTTTGTCAATTAAGGAGTACTG
AGACTTCTTAGCTTTGGTACTGACAGTTTTCTTTTGCTCTTGACATAATTGGTATATGG
ATCTGATAACTGAGGTCCCATCTTCCCTACTCATTCCCTATGGGAATGATGCTTTGGAAAT
TATTAGATATATCCTATTCCCTTCCCTCCCATTTTTTTCTGCTAGTGCAAAGGTAGATG
AGTAGGAAGATTAGGACTCCTGAGTTGCCCATGATTTTCATCTAATTTTTGGATTGAGAA
GTATTTTATGAATAATATGCAGAGATGCATATTAGGAATGTGAAGCCAGAATGGGTGAGT
TGTAGCTGCTGCAAAGTTCTGTAGCTGATGGTCATTTAATTGCATGGGGGTTATTTTATC
TTTCATGATTGTGGTGACCTGATGCTGGCGGGGTATTTGTGTGTTTTTGTATTGTTATT
TGATTACAAAAATAAAGCAAAAACTAAC

Gene 99. >ENST00000265896 cDNA sequence

TACGCCCTATACAACCTTGGCTTTCACATACTTTTACACTAACTTTATATGATTTTTAAAAA
CTGGTCTGATCGGACTTCTCGTCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCG
TGCTCCTCTTGGTACCTCATTTTGGGGAGAACCTTAAACCCACTCGAGCAGATAATCTCC
GCCTTGACCGGTGCCACCAAAGAAGCCTTGGAACCATGTGGACTTTTCTGGGCATTGCCA
CTTTTCACCTATTTTTATAAGAAGTTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCC
TGTTGTGCGTGCTGGTGTTCTCTCGCTGGGCCTGGTGCTCTCCTACCGCTGTGCGCCACC
GAAACGGGGGTCTCCTCGGGCGCCAGCAGAGCGGCTCCAGTTTCGCCCTCTTCTCGGATA
TTCTCTCAGGCCTGCCTTTTCATTGGCTTCTTCTGGGCCAAATCCCCCCTGAATCAGAAA
ATAAGGAGCAGCTCGAGGCCAGGAGGCGCAGAAAAGGAACCAATATTTTCAAGAAACAAGCT
TAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCG
TGGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCCAGAGATGGAAGAAAGG
TGACAGTCATTGAGAGAGACTTAAAGAGCCTGACAGAATAGTTGGAGAATTCTTGACAGC
CGGGTGGTTATCATGTTCTCAAAGACCTTGGTCTTGGAGATACAGTGGAAGGTCTTGATG
CCCAGGTTGTAAATGGTTACATGATTGATGATCAGGAAAGCAAATCAGAGGTTTCAAGATTC
CTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGTGGAAGAGCTTTCCATCACGGAAGAT
TCATCATGAGTCTCCGAAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATTGAAGGTG
TTGTGTTACAGTTATTAGAGGAAGATGATGTTGTGATGGGGCAGTACAAGGATAAAGAGA
CTGGAGATATCAAGGAACCTCATGCTCCACTGACTGTTGTTGCAGATGGGCTTTTCTCCA

FIGURE 1 (CONT'D)

AGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATCTCATTTTGTGGCTTTC
 TTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACTTATTTTAGCTAACCCGA
 GTCCAGTTCTCATCTACCAGATTTTATCCAGTGAAACTCGAGTACTTGTTGACATTAGAG
 GAGAAATGCCAAGGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTG
 ATCACCTGAAAGAACCATTCTTAGAAGCCACTGACAATTCTCATCTGAGGTCCATGCCAG
 CAAGCTTCCTTCCTCCTTCATCAGTGAAGAAACGAGGTGTTCTTCTTTTGGGAGACGCAT
 ATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAAAAC
 TATGGAGAAAACCTGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGG
 CCAAAAAATCATTTTACTGGGCAAGAAAAACATCTCATTCTTTGTCGTGAATATCCTTG
 CTCAGGCTCTTTATGAATTATTTTCTGCCACAGATGATTCCCTGCATCAACTAAGAAAAG
 CCTGTTTTCTTTATTTCAAACCTTGGTGGCGAATGTGTTGCGGGTCTGTTGGGCTGCTTT
 CTGTATTGTCTCCTAACCTCTAGTTTAAATTGGACACTTCTTTGCTGTTGCAATCTATG
 CCGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTA
 GTGGTGTCTGATTGTACAAAGCGTGTCTGTAAATATTTCTCTAATTTACTCAGAAATGA
 AGTATATGGTTTCATTAAGCTTAAAGGGGAACCATTTGTGAATGAATATTTGGAACCTTACC
 AAGTCCTAAGAGACTTTTGAAGAGGATATATATAGCATAGTACCATAACCACTTATAAAG
 TGGAAACTCTTGGACCAAGATTTGGATTAAATTTGTTTTTGAAGTTTTTGTATATAAATA
 TGTAAATACATGCTTTAATTTGCAATTTAAATGAAGGGGTAAATAAGTTAGACATTTA
 AAAGAAATGATTGTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTT
 TGAATTTAGTATTTGAGATGAGTTGTTGGGACATGCAAATAAAATGAAGAATGA

Gene 100. >ENST00000318410 cDNA sequence

AGGGGCGGAAGTCGGGGTCTGACCCGCTCCAGGTCCGGGACTGCGGATAGAAGAGGACCG
 CCGCCTTGAGGGAGGGGTGGAACTGGGTGCCGGCTCCGCGCGGACCTCCGGCCCTGCG
 CGTGCGCCGTGGCGCGGCCCGGCTGACAGGTTCTTTAATGGAGGAGCCAATCTCTCTGCA
 CACCTGGTTTTCATCTAATAATATACAGACACCAGCTCTGAGGCCAGTTAATCATCCCCAG
 TGTCCAGGCACAGAGTAGTCGGTCCGCCTCACAATGTTGGACTTTCTAGCCGAGAACAAC
 CTCTGTGGCCAAGCAATCCTAAGGATTGTTTCTGTGGTAATGCCATCATTGCTGAACTT
 TTGAGACTCTCTGAGTTTATTTCTGCTGTGTTGAGTTAAAGACAGAGCTGATCAACAG
 AAATATGGAGATATCATATTTGATTTTCTGCTATTTTAAAGGTCCAGAATTATGGGAAAGC
 AAACCTGGATGCTAAGCCAGAGCTACAGGATTTAGATGAAGAATTTCTGTAAAACAACATA
 GAAATTGTGACCAGATTTTATTTAGCATTTCAAAGTGTACATAAATATATTGTAGACTTA
 AACAGATATCTAGATGATCTCAATGAAGGGGTTTATATTGAGCAACCTTAGAACTGTG
 CTTCTCAATGAAGATGGAAAAACAATTCTATGTGAAGCACTGTACTTATATGGAGTTATG
 CTACTGGTCATTGACCAAAAGATTGAAGGAGAAGTCAGAGAGAGGATGCTGGTTTTCTTAC
 TACCGATACAGTGCTGCTCGATCTTCTGCTGATTCAAATATGGACGATATTTGTAAGCTG
 CTTTCAAGTACAGGTTATTCTAGCCAACAGGTGCCAAAAGACCATCCAACATATCCCGAG
 AGCTATTTCCAGAGAGTGCCTATCAACGAATCCTTCATCAGTATGGTCATTGGTCGACTG
 AGATCTGATGATATTTACAACAGGTCTCAGCGTATCCTTTGCCGGAGCATCGCAGCACA
 GCCCTGGCAAACCAAGCTGCCATGCTGTACGTGATTCTCTACTTTGAGCCTTCCATCCTT
 CACACCCATCAAGCAAAAATGAGAGAGATAGTGGATAAATACTTTCCAGATAATTGGGCA
 AGTATTAGTATTTACATGGGGATCACAGTTAATCTAGTAGATGCTTGGGAACCTTACAAA
 GCTGCAAAAACCTGCTTTAAATAATACCCTGGACCTTTCAAATGTGAGAGAACAGGCAAGC
 AGATATGCTACTGTGAGTGAAGAGTGCATGCTCAAGTGCAGCAATTTCTAAAAGAAGGT
 TATTTAAGGGAGGAGATGGTTCTGGACAATATCCCAAAGCTTCTGAACTGCCTGAGAGAC
 TGCAATGTTGCCATCCGATGGCTGATGCTTCATACAGCAGACTCAGCCTGTGACCCAAAC
 AACAAACGCCTTCGTCAAATCAAGGACCAGATTCTAACAGACTCTCGGTACAATCCAGG
 ATCCTCTTCCAGCTGCTGTAGATACTGCACAATTTGAGTTTATACTCAAAGAGATGTTT
 AAGCAAATGCTTTGAGAAAAGCAAACCAAATGGGAGCATTACAAGAAAGAGGGTTCCGAG
 CGGATGACTGAGCTTGCTGATGTCTTTTCAAGAGTGAAACCCCTAACAGAGTGGAGAAA
 AATGAAAACCTTCAAGCTTGGTTGAGAGAGATCTCAAAACAAATATTGTCTTTAAATTAT
 GATGATTCTACTGCTGCGGGCAGAAAACTGTACAACCTGATACAAGCTTTGGAAGAGGTT
 CAAGAATTCACCAAGTTGGAATCCAATCTGCAAGTATGTGAGTTTCTTGCCGATACTCGA
 AAGTTTCTTCATCAAATGATCAGAACCATTAACATTAAAGAGGAGGTTCTGATCACAATG
 CAGATCGTTGGGGACCTTTCTTTGCTTGGCAGTTGATTGACAGTTTCACATCCATCATG

FIGURE 1 (CONT'D)

CAAGAAAGCATAAGGGTAAATCCATCCATGGTTACTAAACTCAGAGCTACCTTCCTAAAG
 CTTGCCTCTGCCCTCGATCTGCCCTTCTTCGTATTAATCAGGCAAATAGCCCCGACCTG
 CTCAGCGTGTCAAGTACTATTCTGGAGAGTTGGTATCCTATGTGAGAAAAGTTTTGCAG
 ATCATCCCAGAAAGCATGTTTACATCTCTTCTAAAGATCATAAAGCTTCAGACCCACGAC
 ATTATTGAAGTGCCTACCCGCTGGACAAAGACAAGCTGAGGGACTATGCTCAGCTAGGC
 CCACGATACGAGGTTGCCAAGCTTACTCATGCTATTTCCATTTTTACTGAAGGCATCTTA
 ATGATGAAAACGACTTTGGTTGGCATCATCAAGGTGGATCCAAAGCAGTTGCTGGAAGAT
 GGAATAAGGAAAGAGCTTGTGAAGCGCTTGCCTTTGCCCTGCATAGGGGACTGATATTC
 AACCTCGAGCCAAGCCAAGTGAATTGATGCCCAAGCTGAAAGAGTTGGGAGCGACCATG
 GATGGATTCCATCGTTCTTTTGAATACATACAGGACTATGTCAACATTTATGGTCTGAAG
 ATTTGGCAGGAAGAAGTATCTCGTATCATAAATTACAACGTGGAGCAAGAGTGAATAAC
 TTTCTAAGAACGAAGATTCAAGATTGGCAAAGCATGTACCAGTCCACTCATATTTCAATA
 CCCAAGTTTACCCCTGTGGATGAGTCTGTAAACGTTTATTGGTCTGACTCTGCAGAGAAATC
 CTGCGGATCACAGACCCAAAAATGACATGTACATAGACCAGCTGAACACTTGGTATGAT
 ATGAAAACCTCATCAGGAAGTGACCAGCAGCCGCTCTTCTCAGAAATCCAGACCACCTTG
 GGAACCTTTGGTCTAAATGGCTTAGACAGGCTTCTGTGCTTTATGATTGTAAAAGAGTTA
 CAGAATTTCTCAGTATGTTTCAGAAAATTATCCTGAGAGACAGAACTGTTTCAGGACACT
 TTAACCAACCTCATGAATGCTGTGAGTCCCTTAAAGTATTGTGCGAAATTCAAATAAA
 ATTTATTTTTCCGCCATTGCCAAAACACAGAAGATTTGGACTGCGTATCTCGAGGCTATA
 ATGAAGGTTGGGCAGATGCAGATTCTGAGACAACAGATTGCCAATGAATTAAATTATTCT
 TGTGCGTTTGATTCTAAACATCTGGCAGCTGCTCTGGAGAATCTCAATAAGGCTCTCCTA
 GCAGACATTGAAGCCCACTATCAGGACCCCTTCACTTCCTTACCCCAAAGAAGATAACACA
 CTTTTATATGAAATCACAGCCTATCTGGAGGCAGCTGGCATTCAACCCCACTGAATAAG
 ATATACATAACAACAAAGCGCTTACCCTATTTTCCAATTGTAAACTTTCTATTTTTGATC
 GCTCAGTTGCCAAAACCTTCAATACAACAAAAATCTGGGAATGGTCTGCCGAAAACCGACC
 GACCCGGTTGATTGGCCACCACTTGTCTCTGGGACTGCTCACTCTGCTGAAGCAGTTCCAT
 TCCCGGTACACCGAGCAGTTCTTGGCGCTGATTGGCCAGTTTATCTGCTCCACGGTGGAG
 CAGTGTACAAGCCAGAAGATACCTGAAATTCCTGCAGATGTTGTGGGTGCCCTTCTGTTT
 CTGGAGGATTATGTTCCGTACACAAAGCTACCCAGGAGGGTTGCTGAAGCACATGTGCCT
 AATTTCATTTTTGTATGAGTTTCAAGACAGTGCTGTAACTGTTTTTCTACTTCTTCAATGG
 AAGGATTGTCCTTAGATCTTCCCAACCATCACAAATGAATTTGAAGATGAAAAGAACTCA
 GTTGCTCATACAACCTGCATTTTTTCTGTCTATTATGGGAAACATCAGACGTTCTGAGTAA
 GATATATCTCATGGCATTAGTTAATATAACTGATATTGTTTAAATCATGGTATTACATGC
 AATTTATATCAGATAAAAGCAGAACACATTTTTGTACTGCCTCTCTTAAATGCTGAATGT
 AACTGTTATGTATAAATCCATTTAGTTTTATGTTCTAAAGAACTATTTGTGCAACTCCAG
 ATTTTCAGTAAAATAGTATTACTAGT

Gene 101. >ENST00000329771 cDNA sequence

GACGGGCTCACCACGCAGCAGCTCTTCGCCAGAGCCGACAGCCTCACCTACAACGAGTTC
 CTGATTCTCCAGGATTATAGACTTCATAGCTGATGAGGCGGACCTCACCTCAGCCCTT
 ACCTGGAAGATCACGCTGAAGACGCCGCTGATCTCCTCCTCCATGGACACTGTGACAGAG
 GGCAACATGGCCATCACGATGGCTCTGGTGGGAGGTATTGGTTTTATTACCACTGC
 ACCCCAGAGTTCCAGGCCAAGGAGGTGCGGAAGGTCAAGAAGTTTGAACATGGCTTCATC
 ACGGACCCCATGGTGTGAGCCCTCGCACCTGTGGGTGATGTGCTGGAGGCCACGATG
 CGGCATGGCTTCTCTGGTATCCCATCACTGAGACAGGCACCATGGGCAGCAAGCCGGTG
 GGCATCGTCACTTCCCAGACATCGACTTTCTTGCTGAGAAGGACCAACACCCCTCCTC
 AGTGAGGTGATGATGCCAAGGATTGAGCTGGTGGTGGCTCCAGCAGGAGTGATGTTGAAA
 GAGGCAAATGAGATCCTGCAGCAAAGCAAGAAAGTGAAGCTGCCTATCGTCAATGACGAT
 GATGAGCTGGTGGCCATCATTGCCCTCACCGACCTGAAGAACCGAGACTACCCTGTGGCC
 TCCAAGGATTCCCATGAGCAGCTGCTGTGTGGGGCAGCTGTGGGCACCTGTGAGGATGAC
 AAATACCGCCTGGACCTGCTCACCCAGGCGGTGTGACGTCATAGTCTTGGACTTGTCC
 GAAGGGAACCTTGCTGTATCAACTGATGGTGTATTACGTCAAACAGAAGTACTCCACCTC
 CAGGTGATTGGGGGGAACGTGGTGACAGCAGCCAGGCCAAGAACCTGATTGATGCTGGT
 GTGGACGGGCTGTGTGTGGGCATAGGCTGCGGCTCCCTCTGCATCACCCAGGAAGTGATG
 GCATGTGGTTGCCCCCAGGGCACTGTGTACAAGGTGGCTGAGTATGCCCGGCACTTTGGT

FIGURE 1 (CONT'D)

GTGCCCATCATAGCCGATGGTGGCATC

Gene 102. >ENST00000287387 cDNA sequence

CCTCTCCCCCGGGCTCCGCCCACCCACGCCGGGAACCCACGCCGGGCCACTACAAGCCC
GCCCTTTCCTACGTCTGGTCCAGTCCGTCTTCTCCGGCCCGGGCCCTGGCCAGCTAGC
CGGCCATGGAAGGTAATGGCCCCGCTGCTGTCCACTACCAGCCGGCCAGCCCCCGCGGG
ACGCCTGCGTCTACAGCAGCTGCTACTGTGAAGAAAATATTTGGAAGCTCTGTGAATACA
TCAAAAACCATGACCAGTATCCTTTAGAAGAATGTTATGCTGTCTTCATATCTAATGAGA
GGAAGATGATACCTATCTGGAACAACAGGCGAGACCTGGAGATGGACCTGTGATCTGGG
ATTACCATGTTGTTTTGCTTCATGTTTCAAGTGGAGGACAGAACTTCATTTATGATCTCG
ATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGCCTTTAAGTCTG
ATGATGACATTACCCACAGTTTAGGAGGAAATTTAGAGTGATCCGTGCAGATTTCATATT
TGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGC
CTCCGCCGCCATATCCCTGCATTGAGACTGGAGATTCCAAAATGAACCTGAACGATTTCA
TCAGTATGGATCCCAAGGTAGGATGGGGCGCCGTCTACACACTATCCGAATTTACACATC
GGTTTGGCAGTAAAACTGCTGAACTTGGTCTCAAGATGTGGAAGTGTGGAGAAATTCTA
GGACATGAACAAGCTATCCTTTTCATCGAGGACAGCAAACATTATGGTACAGTTGGCTTGG
AATTATGTCTTTCTCTTTTAATTTGATTGAGTGGAAATCTGAGTGAATACAAATATAAAT
GAACAACATAAAAACTTTTGTGTTTGACATGTCAAATTGAACTTGATAAAGTGCCTACTT
GCTAAGATATTTCTGTGGCTCATGCGTTACAACACGAGGACTTAAGCCAGTAATCGTTTT
TGTTTCAGATAGAGGTGTGGAGGTAGAGCCAGCCCCTCATGTCTGTTTTGGATGTTTTGTG
TCTCTCCAGCTACATTGTAAGTTCTTTGAGGGCAGGGCCATGGCCATTGCTCTGTGAAT
CTCAAATGCCCATAAAAGGTGCCATAAAATGTTTTCTTGAACATTTGAATGTGCTGTTG
TCTGGAAAGGGGTAATATTGTGAGCTGAATCAGCAATAAGTATTAGTCTTTTTGGACTAT
GGTATTGTTAAAAAGACTGCAGCCCTCTCAGACTTGAGCGTTAATTGGCTTATTTATTTA
TGGCTTTAAATAAAATCGATTTAACGTT

Gene 103. >ENST00000309019 cDNA sequence

ATGACTCTTAACGAGCAGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCG
CCCTTAATCCATTCAACCCCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGA
GGTAAGGTCACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACTTCTTCTTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTTCTGCCTTTCTATTCCACAAAGCCGCCATTGTATCCTGGCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 104. >ENST00000287394 cDNA sequence

ATGGTGGTTTCTCCGCAGCAGCTTGGAGCTGCACAACCACTCCGCGGCCTCGGCCACGGGC
TCCTTGGACCTGTCCAGTGACTTCCTCAGTCTGGAGCACATCGGCCGGAGGCGGCTCCGC
TCGGCCGGCGCGGCGCAGAAGAAACCCGCGGCGACACAGCCAAAGCGGGCGATGGGTCA
TCAGTTAAGGAAGTTGAAACCTACCACCGGACACGTGCTTTAAGATCTTTGAGAAAAGAT
GCACAGAATTCTTCAGATTCTAGTTTTGAGAAGAATGTGGAAATAACGGAGCAACTTGCT
AATGGCAGGCATTTTACAAGGCAGTTGGCCAGACAGCAGGCTGATAAAAAAAGAAGAG
CACAGAGAAGACAAAGTGATTCCAGTTACTCGGTCAATTGAGGGCTAGAAACATCGTTCAA
AGTACAGAACTTACATGAAGATAATGGTGATGTTGAAGTGCCTCGAAGTTGTAGGATT
AGAAGTCGTTATAGTGGTGTAACCCAGTCCATGCTGTTTGACAACTTATAACTAACACT
GCTGAAGCTGTACTTCAAAAAATGGATGACATGAAGAAGATGCGTAGACAGCGAATGAGA
GAACTTGAAGACTTGGGAGTGTTTAATGAAACAGAAGAAAGCAATCTTAATATGTACACA
AGAGGAAAAACAGAAAGATATTCAAAGAACTGATGAAGAAACAACTGATAATCAAGAAGGC
AGTGTGGAGTCATCTGAAGAGGGTGAAGACCAAGAACATGAAGATGATGGTGAAGATGAA
GATGATGAAGATGATGATGATGATGACGATGATGATGATGATGATGATGATGAAGATGAT
GAAGATGAAGAAGATGGAGAAGAAGAGAATCAGAAGCGATATTATCTTAGACAGAGAAAA
GCTACTGTTTACTATCAGGCTCCATTGGAAAAACCTCGTCACCAGAGAAAGCCCAACATA
TTTTATAGTGGCCAGCTTCTCCTGCAAGACCAAGATACCGATTATCTTCCGAGGACCA
AGAAGTCCTTACTGTAAACGAATGAACAGGCGAAGGCATGCAATCCACAGTAGTGACTCG
ACTTCATCTTCTCCTCTGAAGATGAACAGCACTTTGAGAGGCGGAGGAAAAGGAGTCGT
AATAGGGCTATCAATAGGTGCCTCCCACTAAATTTTCGGAAAGATGAATTAAGGCATT

FIGURE 1 (CONT'D)

TATAAAGATCGAATGAAAATTGGAGCAAGCCTTGCCGATGTTGATCCAATGCAACTAGAT
TCTTCAGTACGATTTGATAGTGTGGTGGCCTGTCTAATCATATAGCAGCTCTAAAAGAG
ATGGTGGTGTTCATTACTTTATCCAGAAGTCTTTGAAAAATTTAAAATTCAACCCCA
AGAGGTTGTTTGTATGGGCCACCTGGAAGTGGAAAGACTCTGGTTGCCAGAGCACTT
GCCAATGAGTGCAGTCAAGGGGATAAAAGAGTAGCATTTTTTCATGAGGAAAGGTGCTGAT
TGTCTAAGTAAATGGGTAGGAGAATCTGAAAGACAGCTACGATTGCTGTTTGATCAGGCC
TATCAGATGCGCCCATCAATTATTTTTTTTGACGAAATTGATGGTCTGGCTCCAGTACGG
TCAAGCAGGCAAGATCAGATTCACAGTTCATTGTTTCCACCCTGCTAGCTCTTATGGAT
GGATTGGACAGCAGAGGGGAAATTGTGGTCATTGGTGCTACGAACAGGCTAGATTCTATA
GATCCTGCTTTACGAAGGCCTGGTCGCTTTGATAGAGAATTCCTCTTTAGCCTGCCTGAT
AAAGAGGCTCGAAAAGAGATTCTAAAGATTACACCAGGGATTGGAATCCCAAACCACTG
GACACATTTTTAGAAGAGCTAGCAGAAAACCTGTGTTGGATACTGTGGAGCAGATATTTAA
TCAATATGTGCTGAAGCTGCTTTATGTGCTTTACGACGACGCTACCCACAGATCTATACC
ACTAGTGAGAACTGCAGTTGGATCTCTCTTCAATTAATATCTCAGCTAAGGATTTTCGAG
GTAGCTATGCAAAAGATGATACCAGCCTCCCAAAGAGCTGTGACATCACCTGGGCAGGCA
CTGTCCACCGTTGTGAAACCACTCCTGCAAAACACTGTTGACAAGATTTTAGAAGCCCTG
CAGAGAGTATTTCCACATGCAGAATTCAGAAACAAATAAAACATTAGACTCAGATATTTCT
TGTCCTCTGCTAGAAAGTGACTTGGCTTACAGTGATGATGATGTTCCATCAGTTTATGAA
AATGGACTTTCTCAGAAATCTTCTCATAAGGCAAAAGACAATTTTAATTTTCTTCATTTG
AATAGAAATGCTTGTTACCAACCTATGTCTTTTCGACCAAGAATATTGATAGTAGGAGAA
CCAGGATTTGGGCAAGGTTCTCACTTGGCACCAGCTGTCATTGCTTTTGAAAAGTTT
ACTGTATATACATTAGACATTCTGTTCTTTTTGGAGTTAGTACTACATCCCCTGAAGAA
ACATGTGCCCAGGTGATTCTGTGAAGCTAAGAGAACAGCACCAAGTATAGTGTATGTTCT
CATATCCACGTGTGGTGGGAAATAGTTGGACCGACACTTAAAGCCACATTTACCACATTA
TTACAGAATATTCCTTCATTTGCTCCAGTTTTACTACTTGCAACTTCTGACAAACCCCAT
TCCGCTTTTGCCAGAAGAGGTGCAAGAATTGTTTATCCGTGATTATGGAGAGATTTTTAAT
GTCCAGTTACCGGATAAAGAAGAACCGACAAAATTTTTTGAAGATTTAATTCTAAAACAA
GCTGCTAAGCCTCCTATATCAAAAAAGAAAGCAGTTTTTGACGGCTTTGGAGGTACTCCCA
GTAGCACCACCACCTGAGCCAAGATCACTGACAGCAGAAGAAGTGAAACGACTAGAAGAA
CAAGAAGAAGATACATTTAGAGAACTGAGGATTTTCTTAAGAAATGTTACACATAGGCTT
GCTATTGACAAGCGATTCCGAGTGTTTACTAAGCCTGTTGACCCTGATGAGGTTCTGAT
TATGTCACTGTAATAAAGCAACCAATGGACCTTTTCATCTGTAATCAGTAAAATTGATCTA
CACAAATATCTGACTGTGAAAGACTATTTGAGAGATATTGATCTAATCTGTAGTAATGCC
TTAGAATACAATCCAGATAGAGATCCTGGAGATCGTCTTATTAGGCATAGAGCCTGTGCT
TTAAGAGATACTGCCTATGCCATAATTAAAGAAGAACTTGATGAAGACTTTGAGCAGCTC
TGTGAAGAAATTCAGGAATCTAGAAAGAAAAGAGGTTGTAGCTCCTCCAAATATGCCCCG
TCTTACTACCATGTGATGCCAAAGCAAAATTCCACTCTTGTTGGTGATAAAAGATCAGAC
CCAGAGCAGAATGAAAAGCTAAAGACACCGAGTACTCCTGTGGCTTGACGCACTCCTGCT
CAGTTGAAGAGGAAAATTCGCAAAAGTCAAACTGGTACTTAGGCACCATAAAAAAGCGA
AGGAAGATTTACAGGCAAGGATGATAGCCAGAATGCCATAGATCACAAAATTGAGAGT
GATACAGAGGAACTCAAGACACAAGTGTAGATCATAATGAGACCGGAAACACAGGAGAG
TCTTCGGTGGAAGAAAATGAAAAACAGCAAAATGCCTCTGAAAGCAAACTGGAATTGAGA
AATAATTCAAATACTTGTAATATAGAGAATGAGCTTGAAGACTCTAGGAAGACTACAGCA
TGTAAGAATGAGAGACAAGATTGCTTGTAATGGAGATGCTTCTAGCTCTCAGATAATA
CATATTTCTGATGAAAATGAAGGAAAAGAAATGTGTGTTCTGCGAATGACTCGAGCTAGA
CGTTCCAGGTAGAACAGCAGCAGCTCATCACTGTTGAAAAGGCTTTGGCAATTCTTTCT
CAGCCTACACCCTCACTTGTTGTGGATCATGAGCGATTAAAAAATCTTTTGAAGACTGTT
GTTAAAAAAGTCAAACTACAAATATTTTCACTTGGAAAATTTGTATGCAGTAATCAGC
CAATGTATTTATCGGCATCGCAAGGACCATGATAAAACATCACTTATTGAGAAAATGGAG
CAAGAGGTAGAAAACCTCAGTTGTTCCAGATGATGATGTCATGGTATCGAGTATTCTTTA
TATTCAGTTCCTATTTAAGTCATTTTTGTGTCATGTCCGCCTAATTGATGTAGTATGAAACC
CTGCATCTTTAAGGAAAAGATTAAATAGTAAATATAAGTATTTAAACTTTCTGATAT
TTATGTACATATTAAGATAAATGTGTCATGTGTAAGATAACTGATAAATATTGGAACCTTGC
TAGAACAAGACCCTGTAGTAATAGTAATAATAGTTGAAGTTTGGCCAACCTCTTAATAAAG

FIGURE 1 (CONT'D)

TTATTTTGGTAACTAATGTTTTATGGCACTTAAGAATAATTAGCAGCGTTAAATTTTGT
TGTATTAAGCACTTTTAATTTTATCCTTCCTAAAAATAGTTTATTGTATCTGACAAGAAA
CTTACTTAACCATTTGTGTCTTCCCATCTTTTTTGTCTCTTTGTTTTCTTCAAATGCCC
TCCTCCCATCTGCCTTGAGATTCCCTCGTCTTCACTTAAAAGCCAGAGTGCAAGTCATGA
TTTGCGGGAGGGCTCTTGAACCACTTCTGGCTGCACCACAATTCTGTACTTGAGTATCAC
AGTCATTGTTTTTGAAGACAAACATTTTATAATTCTAATTTGGGTAAATAAGATTTTAA
ATATTT

Gene 105. >ENST00000287396 cDNA sequence

AGCACTCCCGGAGCCTGCAACGCTTGAGATCCTCTCCGCGCCCGCCACCCCGCAGGGTGC
CCCGCGCGGTTCCCGCGCGCCCGCGCGCCCGCTCGCGGGCCCTGCACCCCGAGCATCCG
CCCGGGGTGGCACGTCCCGGAGCCACCAGGCCGGCCCGCTCTCCCATCCGTCTAGTCC
GCTCGCGGTGCCATGCCATTCTCGGGCAGGACTGGCGGTCCCGGGCAGAACTGGGTG
AAGACGGCCGACGGCTGGAAGCGCTTCTGGATGAGAAGAGCGGCAGTTTTCTGTAGCGAC
CTCAGCAGTTACTGCAACAAGGAGGTATACAATAAGGAGAATCTTTTCAACAGCCTGAAC
TATGATGTTGCAGCCAAGAAGAGAAAGAAGGACATGCTGAATAGCAAAACCAAACTCAG
TATTTCCACCAAGAAAAATGGATCTATGTTCAAAAGGAAGTACTAAAGAGCGCCATGGA
TATTGCACCCTGGGGGAAGCTTTCAACAGACTGGACTTCTCAACTGCCATTCTGGATTCC
AGAAGATTTAACTACGTGGTCCGGCTGTTGGAGCTGATAGCAAAGTCACAGCTCACATCC
CTGAGTGGCATCGCCCAAAAGAACTTCATGAATATTTTGGAAAAAGTGGTACTGAAAGTC
CTTGAAGACCAGCAAAACATTAGACTAATAAGGGAAGTACTCCAGACCCTCTACACATCC
TTATGTACACTGGTCCAAAGAGTCGGCAAGTCTGTGCTGGTGGGAACATTAAACATGTGG
GTGTATCGGATGGAGACGATTCTCACTGGCAGCAGCAGCTGAACAACATTAGATCACC
AGGCCTGCCTTCAAAGGCCTCACCTTCACTGACCTGCCTTTGTGCCTACAAGTGAACATC
ATGCAGAGGCTGAGCGACGGGCGGGACCTGGTCAGCCTGGGCGAGGCTGCCCCGACCTG
CACGTGCTCAGCGAAGACCGGCTGCTGTGGAAGAACTCTGCCAGTACCACTTCTCCGAG
CGGCAGATCCGCAAACGATTAATTCTGTGAGACAAAGGGCAGCTGGATTGGAAGAAGATG
TATTTCAAACCTTGTCCGATGTTACCCAAGGAAAGAGCAGTATGGAGATACCCTTCAGCTC
TGCAAACACTGTACATCCTTTCTGGAAGGGCACTGACCATCCGTGCACTGCCAATAAC
CCAGAGAGCTGCTCCGTTTCACTTTACCCCCAGGACTTTATCAACTTGTTCAAGTTCTGA
ATCCCAGCACATGACAACACTTCAGAAGGGTCCCCCTGCTGACTGGAGAGCTGGGAATAT
GGCATTGTTGGACACTTCATTTGTAAATAGTGTACATTTTAAACATTGGCTCGAACTTCAG
AGATAAGTCATGGAGAGGACATTGGAGGGGAGAAATGCAGTTGCTGACTGGGAATTTAAG
AATGTGAACCTTCTCACTAGAATTGGTATGGAAGCAAAATACTGTAAATAAACTTTTTT
TCTAACAATTTGCC

Gene 106. >ENST00000303924 cDNA sequence

ATGCATTGTGAGAGGTTTTCTATGTATCCTGAGAATAATTGGAACCACACTCTTTGGAGTC
TCTCTCCTCCTTGAATCACAGCTGCTTATATTGTTGGCTACCAGTTTATCCAAACGGAT
AATTACTATTTCTCTTTTGGACTGTATGGTGCCTTTTGGCATCACACCTCATCATCAA
AGCCTGTTTGCCTTTTGGAGCACCGAAAAATGAAAAATCCCTAGAAACCCCATAAAG
TTGAACAAAACAGTTGCCCTTTGCATCGCTGCCTATCAAGAAGATCCAGACTACTTAAGG
AAATGTTTGAATCTGTGAAAAGGCTAACCTACCCTGGGATTAAAGTTGTATGGTCATA
GATGGGAACCTCAGAAGATGACCTTTACATGATGGACATCTTCAGTGAAGTCATGGGCAGA
GACAAATCAGCCACTTATATCTGGAAGAACTTCCACGAAAAGGGTCCCGGTGAGACA
GATGAGTCACATAAAGAAAGCTCGCAACACGTAACGCAATTGGTCTTGTCCAACAAAAGT
ATCTGCATCATGCAAAAATGGGGTGGAAAAAGAGAAGTCATGTACACAGCCTTCAGAGCA
CTGGGACGAAGTGTGGATTATGTACAGGTTTGTGATTGAGACACTATGCTTGACCCAGCC
TCATCTGTGGAGATGGTAAAAGTTTTAGAAGAAGATCCCATGGTTGGAGGTGTTGGGGGA
GATGTCCAGATTTTAAACAAGTACGATTCTCGGATCTCATTCTCAGCAGTGAAGATAT
TGGATGGCTTTTAATATAGAAAGGGCCTGTGAGTCTTATTTTGGGTGTGTTCAAGTGCATT
AGTGGACCTCTGGGAATGTACAGAACTCCTTGTGTCATGAGTTTGTGGAAGATTGGTAC
AATCAAGAATTTATGGGCAACCAATGTAGCTTTGGTGATGACAGGCATCTCACGAACCGG
GTGCTGAGCCTGGGCTATGCAACAAAATACACAGCTCGATCTAAGTGCCTTACTGAAACA
CCTATAGAATATCTCAGATGGCTAAACCAGCAGACCCGTTGGAGCAAGTCCTACTTCCGA
GAATGGCTGTACAATGCAATGTGGTTTCAAAACATCACTTGTGGATGACCTACGAAGCG

FIGURE 1 (CONT'D)

ATTATCACTGGATTCTTTCTTTCTTTCTCATTGCCACAGTAATCCAGCTCTTCTACCGG
GGTAAAATTTGGAACATTCTCCTCTTCTTGTAACTGTCCAGCTAGTAGGTCTCATAAAA
TCATCTTTTGCCAGCTGCCTTAGAGGAAATATCGTCATGGTCTTCATGTCTCTCTACTCA
GTGTTATACATGTGAGTTTACTTCCCGCCAAGATGTTTGCAATTGCAACAATAAAACAAA
GCTGGGTGGGGCACATCAGGAAGGAAAACCATTTGTTGTTAATTTTATAGGACTCATTCCA
GTATCAGTTTGGTTTACAATCCTCCTGGGTGGTGTGATTTTACCATTATAAGGAGTCT
AAAAGGCCATTTTCAAGATCCAAACAGACAGTTCTAATTGTTGGAACGTTGCTCTATGCA
TGCTATTGGGTGATGCTTTTACGCTGTATGTAGTTCTCATCAATAAGTGTGGCAGGCGG
AAGAAGGGACAACAATATGACATGGTGTGATGTATGA

Gene 107. >ENST00000329599 cDNA sequence

TGCATGAGGGGGATAGGGAAGTTTGGCCCACCAGAATGATCACCAAGACATACAAAGTA
GACCTGGGCCCTGGGCTCCAGAGAAGAAAAAGAAGAAGAAAGTGGTCAAAGAACCAGAG
ACTCAATATTCAATTTTAAACAATGATGATTACTTTGCCAATGTTTCTCTATAAGAGCC
ACATCCCCTTCTAAGAGTGTAGTCCATAGGCAGGCACCTGAGATGCCTCTAGCGAAGAAA
AAGGAGAAAAAGAAGGGTGTGAGCGCCCTTTGCGAGGAGCATGTGGAACCTGAGACCACG
CTGTGTGCCAGACAGACAGAGAAGTCAACCCAGCCCCAGGAAGCAGGTACTTGGCCACTTG
AAGTTCCTCAGTGGGGAGAAGAAAAAGAAGTCACTCAGGCTATGTCCCATGCCTCCAGG
GTGAAAACCTCCTCAGACCTCAGACATAGTGAGGAGGAAACAGAGTCGGAAAGAACTT
AAAAAACACAAGAAGGCAAAAAATAGGGGGCCAGGACCAGCCTTCTCAGTCCAGGACCC
TTGGTTCTGCAAGGCCGGGATGCTGCAGACACTTGCTCAGTGGGGAAGGAGGGTGAAGAA
CAGGCAACCTTGGGGCAGAAACAGAAGCAGAAGAGCCCCAGGGAACACAGTGGGAAGGTG
AAGAAGAAAAAAAACACCAGGAGGGAGACCTCCTCCAGGCCACTCAAGCCCTCCAGG
TCCTTGGAGAGCAGCCCCATAAAGGAAGTAAACTAAACCAGTCAAAGTTGAGGCTCCG
GAATATATCCCATAGGAGATGGCCCTAAGGCCCCCGCAAGAAAAAGATGAAGTCCAAG
AAGAAGGTCAACGAGGAGCCGGCTCTGAAAAGGAAGAAAAAAAAGAGGAAAGAGAGTGGG
GTAGCAGGAGACCTTGAAGGAGGAAACAAACATGGACTTAGAGGTGGTGTGGAAAGG
AAAGGCAATATGGACGAGGCGCACATAGACCAGGTGAGGCGAAAGTCCTTGCAAGAAGAG
GTCCATCAGGAGTCAAGCAAAACGGAAGCTTCTGAAACCTGGAAGTGGACGGGAACCCAG
TTTGGCCAGTGGGATACTGCTGGTTTTGAGAACGAGGAACAGAACTGAAATTTCTCAA
CTTATGGGTGGCTTCAAAAATCTCTGCCCCCCCCCCCCAACCCCCAGCACGATTGCAAGG
CCCAACATGGCCCTCAGCAAGAAGGCAGCCACAGCCTGCAGCAGAACCTGCAGCAGGAC
TACGACCGGGCCATGAGCTGGAAGTACAGCCGCGGAGCCTGCTTTGGCTTCTCCACCGCC
AACAAGATCTTTTATATTGACAGGAACACTTCCAAGTCAGTC

Gene 108. >ENST00000308614 cDNA sequence

CTAGTGGACATCTGAAACCTAAACATCTCATCTGTGCAAAAAAGAGGAATGAGCCAGG
TCGGGAGAGTGAGAAGCTCGCACCACTTCGAAAGCGTCTGCCTGGATGCTGAAGTTCGGG
TTGTTCTTGTAGCTCTGGATCACGCAGGACTTCACACCTTGTCTCCGCACTCAATGAGA
GCCTGAGGCCGATCCACAGAGAGGAGCTGCACCTTCTTCATTTCCCGAACTCCCCAGAAG
AGAACCTGAGGAAAAGACCAGCAGAGCCATCACCAAGATCCACGGAGGAGCCCCACACC
TGCCCTGGCTCTGTGTGGAAGGTTAGACCTGCTCCCTGAGAACCACGCTGTGTTCTCTCC
AGGAAAGAACTGCACAGCTTTTTTGAAGGGCTCATTCTTTTTCTCTAGGTCTCCCGCCATT
CCATATCACCTCTCCTACAATTGAGGTGGGGCCACTGCCCTTGAGTGCCAAAGAACAACT
CAGCTCCTCCGCTGACCCGTACCTCCACTCGGTATTTGCTCAGCACCGGCCGAATGTTGG
CAGGAACCGGGTAGATCTGGGTGATGTCTGGTGGCTCAACGGGTGGGAGGCCTTGACGCC
CAGAAGGAGGAACCTACCGCACAAAGACATATTCTCGTTGGCAACAGCAGATGTGGTTAAG
CTAATTACAAGAAAGCTCAGAAAAAGGAGAGCAGACACTGCAATGCGCAATAGGCTTAA
GGTAATGAAGCTGCAGGATACACCAGCCAGATCAAGAAGCTGGTAAATAATGAGGATGG
CAATGCCCAATACTGCCTGGCAGTGATGAGAGTCAATAATGTGAGTGAATTTCTCCATA
AAGGGCTTGACTTAGGGTTGGGCCAGGAAAAGCCATTACTGAATGGAGATCTGGAAGGGA
AATGGAAAGCAATGGGACAGCAAGGGGAAACACAGCCAGCTCAGCAGGAAGCAAGATGGG
AACTTCATGGTCTCCAAGGTCTCCGCTCCCCTTCTGTGATGCTCACTTCTTGACTCCCTC
CTGACCTTGACCCAAAGACAGGGGCTGTGAGGAGTACTGCGAGGAGGTGGGGAAGCTTTA
GGCAGGCTTCTGGAACCTACTGTTTTACTTAATATATTTGTGCTTCTGCAACCTCATGAG
GAGGTAGAGATATTAAATAAAGAAACAAACCTTTCTTTTCAATTTTAGACTACCTAATTT

FIGURE 1 (CONT'D)

AAGAAAAGAATATTTGTGTAAGTTAAAAAATCCTCCAGTAAGCTTTGGACTCTATCCAA
GGGTTTCCAGCACACAAACGTCTTTGGAGAACAAGAGGTTTGGTTTACATCATAAAAGAAAA
GGGATAGAGATTAAAGTGTTGTGAAAGGCGTCAAGCAACAAGCAAGAGAGAAAGAAACA
CAGAAAGGCTGAGAAAATACCCATCCATTTCTTTTTCAGCCAGGGGAGATCAGTAAAAACC
TCCTGTCTCCAAAAAGCATGGACATTTTTATTAAACAGCAATAGGACCTGGAATTAGCTG
GAGGCTGGGTACAGTTGCAGGTTGCTTTATACAAGTATCACATTCTGAAGAAGTGTGTA
GACTGACGTTCTGTAAACCAGATCCAATTTTAATTGCCATTTAAATGGAAGTCAGTGAAA
AACTCTTTTAGTAAAGCAAATGATCATCACC

Gene 109. >ENST00000327482 cDNA sequence

ATGGGGGACATCTTCCACCACTTCTTAAAGGGCTTTTTTGGCACAAAAGAAGTGCCCATC
ATCATGGTGGGCCTGGATGCTGCAAGGAAGACGCCAATCCTGTACAAGCTGAAGTTGGGC
GAGATTATGACCACCGTCCCCACCTTAGACTTCAGCGTGGAGAATGCGGAGTACAAGAAC
ATCAGCTTCAGCCTGTGGGATGGGTGGCCAGGACAAGGCCACTACTTCCAGTGCACACAA
GGCCTGATCCTCGTGGTGGACTGCAATGACAGAGAGCTCATGGACGAGGCCAGGAGGGG
CTCATGAGGATGCTAGCTGGGGTCAATCTTGGGATGCAGTCCCCAACAAAGCGGGCCTCC
CCAACACCAAGAATGCAGCCGGGATCACAGACACGTTGGGGCTCACTCCCTACCACAGGA
ACTGGTATATTAGGCTACCCGCACCATCAGCGGCGACGGGCTCTGTGAAGGACTGGACT
TGTCCCAGCAGCTCCCAAACCAGAAGTGAACGAACCCCGATCCTCTCACTCCTCCTCTTG
CCTTCCACTTTACTCTCATGTAGCAAATGTGTAGTTTGGTGTGAGTGCCAGAAGCTGCCT
CTGTGGTTGAGTCACCATGTGCATCTCACCGTGTCTGTAA

Gene 110. >ENST00000330102 cDNA sequence

GCATTTAATCTTAGTCCAGCTGATCCAGATGGCAAATCAGATCCCTACATTGTGATCAAG
CTTGGCAAGACAGAAATCAAAGACCGGGATAAATACATCCCTAAACAACCTGAACCCAGTA
TTTGGAAAGGTCATTTGAGATCCAAGCCACATTCCCAAAGAGTCCCTGCTCTCCATCCTG
ATCTATGACCATGACATGATTGGCACAGATGACCTTATTGGTGAGACCAAGATCGACCTG
GAGAACCGCTTCTACAGCAAACACCGAGCCATCTGTGGCTTGAGAGCCAGTATGAGATA
GAAGGATACAATGCCTGGAGAGACACGTCCAAACCCACCGAAATCCTCACTAAGCTCTGC
AAAGACAACAAGCTGGATGGACCCTACTTTACCCCTGGGAAAATACAGATAGGAAACCAA
GTCTTTTCTGGAAAACTATCTTCACTGAAGAGGACACTGATGAGACAGTGGAGTCTTAT
GAACACCTGGCCCTCAAGGTTTTACACTCTTGGGAGGATATCCCGGAAGTCGGGTGTAGG
CTGGTTCTCTGAACACATAGAACTCGGCCACTGTACCACAAGGATAAGCCAGGAATGGAG
CAGGGCCGCTGCAGATGTGGGTGGACATGTTTCCCAAGGATATGCCTCAACCTGGACCT
CCTGTTGACATCTCTCCAAGGCGACCCAAAGGATACGAATTGAGAGTGACCATCTGGAAC
ACTGAAGATGTCATTTTAGAGGATGAGAATATCTTACAGGCCAAAAATCAAGTGATATT
TATGTGAAAGGTTGGTTAAAGGGCTTGGAGGATGACAAGCAGGAGACAGATGTGCATTAC
AACTCCCTGACTGGAGAGGGCAACTTCAACTGGCGCTTCTGTTTCCCTTTTCACTATCTC
CCAGCTGAGAAGCAAATGGTCATTACCAAGAGGGAGAACATCTTCTCTTTAGAGAAGATG
GAGTGTAAGACTCCTGCTGTGTTGGTGTGCAGGTTTGGGATTTTGAAAGGCTGTCTCA
GATGACTTCTGGGCACCCTGGAAATGAACCTCAACAGTTTCCCTCGAGCAGCTAAGTCT
GCCAAAGCCTGTGATCTTGCCAAGTTTGAAATGCAAGTGAGGAGACCAAGATCTCTATA
TTCCAGCAAAAACGTGTGCGTGGCTGGTGGCCTTTTTCTAAAAGCAAAGAACTCACAGTA
AGTGACAGCTATGGGAGGTGGAGGAGATGGGGGAAAAGGTTGCCATTGGCTCAGTGGGTG
TTTGTGACTGGAAACAAAAGGTTTTGCATCTTTTTGCAGGGCAAGGTTGAAGCTGAGTTC
CACCTAGTTACAGCAGAAGAAGCTGAGAAAAATCCTGTTGGAAAAGCCGAAAGGAGCCA
GAGCCCCTGGCCAAGCCCAACCGCCAGACACCTCCTTTTCTGTGGTTTCATGAGCCCCTTT
AAGTGCCTGTACTACCTCATCTGGAAGAATTAC

Gene 111. >ENST00000321393 cDNA sequence

ATGGACATCCTCCCTTACCTTACATGTACATGGCAAGTGCCCTCTCCTGGTGAGGGGC
AAGGGTGAGATGGAGGGAGAAGCCCTGTTGAGCTGCTTGGCCATGAACAGTTTGGGGGAA
CAGGAAGCTTGCCTTGACCTCGGGTCCAAGACTCCCTCCCTAGAGATCTCATCAAATAAC
CAGGAAAGACCAACCAACAGAGAAGAGACTGGAATCATCTGCCAGAAAGACTTTTCATC
TATTCTTCTAAGGACAGCTCCAAGAGATTACCTGGGGGACTTTGTATAAAAAATAAGACA
ACCTGTGTTCTGTGCAGCTTCATCCCTCATCTTCCCTAAGTGTCAAGAAGCAATAGTT
AGTCCACAAGCACGAGTGAAATTACTGAACAAAATTAAGATGGATACAGCACTCTAA

FIGURE 1 (CONT'D)

Gene 112. >ENST00000287437 cDNA sequence

GCCCCGCTCTCACTTTTTAGCGGGCAGGCGAAGGGGGCTGAGGAAAGGAGGTGGGTCTAGGC
AGGGGAAATTGGGGTGCCACCAGACGGAGACAGCTTGGACTACCAGAATCAAGCACTCTT
TTGGAAGAGGGTAATCTCTCTCCAAAACTGAGGACACTTACCTTCCCATATATTGAGT
CCAGCTGTGTTTTGGTGGCCAGGTACTAATTTCAAGATGCCAGGACGTTCCAGTTCAAAT
TCAGGTTCAACTGGTTTCATCTCCTTCAGTGGTGTAGAGTCTGCTCTCTCCTCCTTGAAA
AATTCCAAGCCTGTATCAACTCTGGTATGGACACAGCTTCTAGTGTTGCTTTGGATCTT
GTGGAAGTCAAGTGAAGTGAATATAGTATGGACAAGGCAATGGTTGAATTT
GCTACATTGGATCGGCAACTAAACCATTATGTAAAGGCTGTTCAATCTACAATAAATCAT
GTGAAAGAAGAAGCTCCAGAAAAATACCAGATTTAAAATTATTGGTAGAGAAGAAATTT
TTGGCTTTACAGAGCAAGAATTTCTGATGCAGACTTTCAAATAATGAAAAATTTGTACAG
TTTAAACAACAGCTGAAAGAACTAAAGAAGCAATGTGGTCTTCAAGCTGACAGAGAAGCT
GACGGAACAGAAGGAGTGGATGAAGATATAATTGTGACCCAAAGTCAGACCAACTTCACC
TGCCCCATTACAAAGGAGGAAATGAAGAAGCCAGTGAAAAATAAAGTGTGTGGCCACACC
TATGAAGAGGACGCCATTGTTTCGCATGATTGAGTCCAGGCAAAAGCGGAAGAAAAGGCC
TATTGCCCTCAAATTGGCTGTAGCCACACGGATATAAGAAAGTCAGATCTTATCCAGGAT
GAAGCACTTAGAAGGGCAATTGAGAACCATAACAAGAAAAGACATCGTCATTCCGAGTAG
GAAAAGCCACCTGCCTGCAGGGACACCAGCAGCCTACCTCCTACCCAGCTGTCTGTTGA
GAGCAGTGCTGACCCAGCAGTTAGGGACTGGCTGCATAGCATACTTGTGGGGGTAAAA
CTTGTTGCTTTTATGTGTGCTTGAAAAACATTTTTCAAAGTTACACAACAGAAATGCAATC
ATATTGTTTATTTTTAAGTGTCTATAATGTTAAATAAACTTTGATCATCTGC

Gene 113. >ENST00000311709 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAACCGCAGAGCGCCTCTCCTCCT
CCAAAGGAACGCAGTTCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAT
GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAACACTCTGCAGGAT
ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAAGATTCAAGAAATA
CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
TTCACCAAAGTTGAAATGAAGGAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCCTACAAGCC
AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCACATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
CAAATGTTGAGAGATTTTGTCAACCACAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAGGAACAACCGGTACCAGCCGCTGCAAAACCATGCCAAATGTAA

Gene 114. >ENST00000303545 cDNA sequence

GAAACCCAGAGACCTCCTGGGGAGCCGCCGCCGCCCTCTCGGCCATCGCTGCCTCCG
CCGCCTGCTCCACCTCGAGGGACGCGAGCGGGCGGGGGCTGGCCGTGAGAGAGACAGG
AGAGGAAGGAGGGCAGGGGCGGAGTTGCCCCCTTAGCCCCCGCCCCGGCCGGCCCCC
GGGCCCTGCCCCGCGCGGCCCTGCCCGGCCACCGAGCCCTGGTGTGGCAGCGGCTCATG
GCGGCCGTGGGGCCCCCGCAGCAGCAGGTGCGGATGGCCCATCAGCAGGTCTGGGCGGCG
CTCGAAGTGGCGCTCCGGGTGCCCTGCTTTACATCATCGACGCCATCTTCAACTCCTAC
CCGGATTCCAGCCAAAGCCGGTTCTGCATCGTGCTCCAGATCTTCTCCGGCTCTTTGGT
GTATTTGCATCCAGTATTGTTCTGATCTTGTCAACAGATCACTTTTCAAGTTTACACG
TACAGCTCAGCCTTTCTGTTAGCTGCAACTTCAGTGTGGTGAATTATTATGCTTCTTTG
CACATTGACTTCTATGGTGCCTACAACACGTCACTTTTGGAAATTGAGCTGCTTCTCGA
AAAGGTCCCTCGCTGTGGATGGCACTTATCGTTCTACAGCTAACATTTGGAATTGGATAC
GTTACACTACTCCAGATTCATTCCATCTATTACAATTAATTATTTGGATCTCTTGGTT
CCTGTAATAGGCTTAATCACAGAGCTACCATTACACATCAGAGAGACTTTACTGTTTACT
TCTTCCTTGATTCTCACATTAAATACAGTGTGTTGTCCTGGCAGTGAACTGAAGTGGTTT

FIGURE 1 (CONT'D)

TATTATTCCACACGATATGTTTATCTTTTGGTGAGGCACATGTATCGAATTTACGGATTA
CAGTTATTGATGGAGGACACATGGAAGAGGATTTCGTTTCCAGACATACTACGAGTCTTT
TGGCTAACAAAGAGTTACAGCTCAGGCTACAGTGTTAATGTACATCTTAAGGATGGCAAAT
GAAACTGATTCTTTCTTTATTTCTTGGGATGATTTTTGGGACCTCATTTGCAATCTTATA
ATTAGTGGGTGCGATTCTACACTAACTGTACTGGGCATGAGTGCTGTAATTTCTCAGTA
GCCCATTATTTGGGGCTTGGAATATTGGCCTTTATTGGATCAACTGAGGAAGATGACAGG
CGTCTTGGCTTTGTTGCACCTGTTTTATTTTTTATTTTGGCTCTTCAGACTGGGTAAAGT
GGGCTAAGACCAGAAGAGAGACTTATTTCGCTTAAGTAGAAACATGTGCCTTTTATTAAGT
GCAGTCCTGCATTTTATCCATGGAATGACAGACCCTGTATTAATGTCTCTCAGTGCCTCT
CATGTGTCTCTTTTCGTAGACATTTTCTGTGCTGTTTGTCTCTGCTTGCCTGTTTATT
CTTCCTGTCTTACTCAGTTATGTTCTTTGGCATCACTATGCACTAAATACATGGTTGTTT
GCAGTTACAGCATTTTGTGTGGAAGTGTGCTTAAAGTAATTGTTTCTCTCACTGTTTAT
ACGTTATTTCATGATTGATGGCTACTATAATGTCTCTGGGAAAAGCTTGACGATTATGTC
TACTACGTTTCGTTCAACAGGCAGTATTATTGAATTTATATTTGGAGTTGTAATGTTTGGAA
AATGGGGCTTACACTATGATGTTTGGAGTCGGGAAGTAAATTCGGGCTTTTATGATGTGC
CTACATGCATATTTTAAACATCTACTTACAAGCCAAAAATGGCTGGAAGACATTTATGAAT
CGTAGGACTGCTGTGAAGAAAATTAATTCACCTTCTGAAATAAAAGGGAGCCGCTTACAA
GAAATAAATGATGTATGTGCAATCTGCTATCATGAGTTTACAACATCTGCTCGTATTACA
CCGTGTAATCATTATTTCCATGCATTTGCCTTCGGAAATGGCTGTACATTCAAGATACT
TGTCCAATGTGCCATCAGAAAGTATACATCGAAGATGATATCAAGGATAATTCAAATGTA
TCTAACACAATGGATTTATTCCACCCAATGAAACTCCAGAGGAAGCTGTAAGAGAAGCT
GCTGCTGAATCTGACAGGGAATTGAACGAAGATGACAGTACAGATTGTGATGATGATGTT
CAAAGAGAAAGAAATGGAGTGATTGAGCACACAGGCGCAGCAGCTGAAGAATTTAATGAT
GATACTGACTGATGAAATAGCATTATTAATGATTGAGGTATTTGTTTAAATTCAGTT
CATCCAAAATGGAGTAATATCCTTCACCTTCAGTGTGTAACCAAGCACAAAAACAGTATC
AATGTTGAATCTGTGAATGGTTTTCCGTTTACTGTGATGTGCTACTGTAAATATACCTCT
TTAATTACTTCTGGTCTCTTTGGTGACCTGTTTAAATTTGTGTACATTATTGTACATAGA
ATAAAATGTTTTTCACATTTTTATG

Gene 115. >ENST00000259512 cDNA sequence

GCCCGTCTCCGCCTTCTGCATCGCGGCTTCGGCGGCTTCCACCTAGACACCTAACAGTCG
CGGAGCCGGCCGCGTCTGTAGGGGGTCCGCACGGGGAGTCGGGCGGTCTTGTGCATCTTG
GCTACCTGTGGGTGCAAGATGTCCGACATCGGAGACTGGTTTCAGGAGCATCCCGGCGATC
ACGCGCTATTGGTTCCGCCGCCACCGTCCCGTGCCCTTGGTCCGCAAACCTCGGCCTCATC
AGCCCGGCTACCTCTTCTCTGGCCCCGAAGCCTTCCCTTTATCGCTTTTCAGATTTGGAGG
CCAATCACTGCCACCTTTTATTTCCCTGTGGGTCCAGGAACTGGATTTCTTTATTTGGTC
AATTTATATTTCTTATATCAGTATTCTACGCGACTTGAAACAGGAGCTTTTGATGGGAGG
CCAGCAGACTATTTATTCATGCTCCTCTTTAACTGGATTTGCATCGTGATTACTGGCTTA
GCAATGGATATGCAGTTGCTGATGATTCTCTGATCATGTGAGTACTTTATGTCTGGGCC
CAGCTGAACAGAGACATGATTGTATCATTTTGGTTTGGAAACAGATTTAAGGCCTGCTAT
TTACCCTGGGTATCTTGGATTCAACTATATCATCGGAGGCTCGGTAATCAATGAGCTT
ATTGGAAATCTGGTTGGACATCTTTATTTTTTCTAATGTTTCAGATACCCAATGGACTTG
GGAGGAAGAAATTTCTATCCACACCTCAGTTTTTGTACCGCTGGCTGCCAGTAGGAGA
GGAGGAGTATCAGGATTTGGTGTGCCCCCTGCTAGCATGAGGCGAGCTGCTGATCAGAAT
GGCGGAGGCGGGAGACAACTGGGGCCAGGGCTTTCGACTTGGAGACCAGTGAAGGGGC
GGCCTCGGGCAGCCGCTCCTCTCAAGCCACATTTCTCCAGTGCTGGGTGCACTTAACA
ACTGCGTTCTGGCTAACACTGTTGGACCTGACCCACACTGAATGTAGTCTTTTCAGTACGA
GACAAAGTTTCTTAAATCCCGAAGAAAAATATAAGTGTTCCACAAGTTTCACGATTCTCA
TTCAAGTCCTTACTGCTGTGAAGAACAAATACCAACTGTGCAAATTGCAAAACTG

Gene 116. >ENST00000276689 cDNA sequence

CCTTCGGGCTGGCCCCGCTCAGTCACCCGCAGCAGGCGTGAGTTTCCCGGCTCTCCGCG
CGGCCGGGGAAGGTACGCGCCGTAATGGCGTTCTTGGCGTCGGGACCCTACCTGACCCAT
CAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCTACGCCACCTCGAGTCGTGGTGCGTC
CAGAGAGACAAATACCGATACTTTGCTTGTTTGTATGAGAGCCCGGTTTGAAGAACATAAG
AATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAATTCTGG

FIGURE 1 (CONT'D)

TACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAG
AGATACGATTGCTACAAGGTCCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAG
GCAATGTATCCTGATTACTTTGCCAAGAGAGAAACAGTGGAAGAACTGCGGAGGGAAAGC
TGGGAACGAGAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCCTTTAACTGAA
GCTTTGCCCCCTGCCCCGAAAGGAAGGTGATTTGCCCCCACTGTGGTGGTATATTGTGACC
AGACCCCGGGAGCGGCCCATGTAGAAAGAGAGAGACCTCATCTTTCATGCTTGCAAGTGA
AATATGTTACAGAACATGCACCTTGGCCTAATAAAAAATCAGTGAAATGGTC

Gene 117. >ENST00000276692 cDNA sequence

GGCCACTTCCGCTTCCGCTGGGGAGGTCTCCATGCGCAGTCATGAGTCGCTTCAAGTTT
ATCGATATTGGTATCAACTTGACTGACCCTATGTTTCAGAGGAATTTATAGGGGGGTTCAA
AAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTGAGATTGGTGTAAAAAG
TTTATGATTACAGGTGGAATCTACAAGACAGTAAAGATGCACTGCATTTGGCACAACA
AATGGTATGTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAG
AATAACCTGATCTTTACTTAAAGGAGTTGCTAAATCTTGCTGAAAAAATAAAGGGAAA
GTTGTGGCAATAGGAGAATGCGGACTTGATTTTGACCGACTGCAGTTTTGTCCCAAAGAT
ACTCAACTCAAATATTTTGA AAAACAGTTTTGAACTGTGAGAACAAACAAAATTACCAATG
TTTCTTCATTGTGCAAACTCACATGCTGAATTTTTTGACATAATGAAAAGAAATAGAGAT
CGGTGTGTAGGGGGAGTGGTGCATTCAATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTG
ATTGACTTGGATCTTTATATAGGATTTAATGGTTGCTCACTGAAAACCTGAAGCTAATTTG
GAAGTTTTGAAGTCAATTCCTAGTGAAAAATTAATGATTGAGACAGATGCACCTTGGTGT
GGAGTCAAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATTTCTACCAAAAAG
AAGTGGGAAAGTGGGCACTGCTTAAAAGACAGAAATGAACCCTGCCATATAATTCAAATA
TTGGAGATAATGTGAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATAT
AACAATACTATTAAAGTATTTTTTCTGGAATATAATTGGTATATGTCTTCCACTTTCCA
TCATGTATGTAAATTTTCATAGTAAAACTTCTGATAGTTTCAATAAAGAAATTATCTGC

Gene 118. >ENST00000297628 cDNA sequence

ATTGCCATAACCATCACCGAGGCTCGCCAGCTGGTGGGTGAGAACATTGACCCAGTTGTG
ACCATTGAGATTGGGGATGAGAAGAAGCAAAGCACAGTGAAGGAAGGAACCAACAGCCCA
TTTTATAATGAATACTTTGTCTTCGACTTCATTGGGCCCCAAGTGCATCTTTTTGACAAG
ATCATCAAAATCTCCGTAAGTATAGCATTGGTGGTAATAGTTGTGGAGAGGTGGGAGACA
TTTTGGGCATTGGGGACTCTCTGGGCAAACTCAGCATACTTAGCGGGGAATAGATTGAGG
AGGGCAAGTGTGAGTTGTGTAAGTGGCTCTTTCAAAGTAGACCTGGGGACCGTGTAC
AACCAACCTGGTCATCAGTTCTGCAACAAGTGGGCCCTGCTCACAGACCCTGGTGACATC
AGGACTGGCACCAAGGGGTACCTGAAATGTGACATCAGTGTGATGGGAAAAGGTGATGTC
TTGAAGACCAGCCCTAAAACTTCTGACACCGAGGAGCCAATAGAAAAGAACCTTTTGATC
CCCAATGGGTTTTCACTGGAGAGACCGTGGGCCAGATTCTATGTGAGACTCTACAAAGCA
GAAGGGTTGCCCAAAATGAATTCAGCATCATGGCGAACGTACCAAGGCATTTGTGGGT
GACAGTAAGGACCTGGTGGATCCCTTTGTGGAGGTCTCCTTTGCTGGGCAGATGGGGCGA
ACCACAGTGCAGAAGAACTGTGCTGATCCTGTGTGGCATGAACAGGTGATCTTCAAGGAA
ATGTTCCCTCCCTTGTGTGCGAGGGTGAAAATCCAGGTGTGGGATGAAGGCAGCATGAAT
GACGTAGCCCTGGCAACCCATTTCAATTGACCTGAAGAAAATCTCCAACGAACAGGATGGA
GACAAAGGCTTTCTGCCCACCTTTGGGCCTGCCTGGATTAACTGTATGGCTCGCCCAGG
AACCACAGTCTGATGGATGACTACCAGGAAATGAACGAAGGCTTTGGGGAAGGTGTGTCA
TTCAGGGGCAGAATCTTGGTAGAAATTGCTGTGGAAATCCTCTCAGGACGGGCACAGGAA
TCTAAATTTTCCAAGGCCCTGAAGGAGCTCAAGTTGCCTTCCAAGGACAAAGACTCCAAA
TCTTCCAAGGTAAAGACAAGGCTGACAAAACCTGAAGATGGAAAATCCCAACAGGCTTCA
AACAAAATAACTCAACCGAGGTGGAGGTGGAATCGTTGATGTCCCCCGGAGGTAGAA
AAAAATGAGGAATTTTTACTCTTTGGAGCATTTTTTGAAGCTACCATGATTGACCGGAAG
ATTGGAGATAAACCCATCAGCTTTGAAGTTTCTATTGGTAAG

Gene 119. >ENST00000325995 cDNA sequence

ATGGACGAGGAGTCACTAGATGGGCTGCTCTTCAAAGACCACGACTTCTCTTCTGACTTG
TTGAGGCAGCTCAACAGCTTAAGGCAAAGCAGGATCCTGACTGATGTGAGCATCTGTGCC
GGTGGCCCGGAGATCCCCTGCCACCGCAACGTGCTGGCCTCCAGCAGCCCCCTACTTCAGG
GCTATGTTCTGCAGCAGCTTCCGGGAGAAGAGTGAAGCCAAAGTGCAGCTGAAAGGCATT

FIGURE 1 (CONT'D)

GACCCCCCAACCCTGGACCAGATCGTCTCCTACGTGTATACGGGGGAGGCACATATTGCC
 ACTGACAATGTCCTCCCCGTGATGGAGGCCGCTCCATGCTACAGTTCCCCAAGCTGTTT
 GAGGCCTGCTCCTCGTACTTGCAGAGCCAGTTGGCCCCCAGCAACTGCCTGGGTATGATC
 AGACTCTCAGAAATCTTAAGCTGCGAGACCCTCAAGAAGAAAGCCAGGGAGGTGGCACTG
 ACGTCCTTCCCAGAGGTGGCCGCATCGGCCGACCTGAAGGAGCTCTGTGCCTTGGAGTTG
 AGGGACTATCTCGGAGATGATGGGCTCTGTGGGGAGGAGGAAAAGGTGTTTGGGCCCTC
 ATGGTTTGGATCAAGCATGACCTCCAGGCCCGGAAGCGATACATGCAGGAACTGTTCAAG
 CAGGTGAGGCTGCAGTACATCCACCCAGCCTTCTTTCACTTTCATCGCCAACGATGCC
 CTCCTGCAGTCTCGCCTGCATGCCAGATCATCTTGGAGACCGCCAAGAGACAGATGTTT
 TCTTTGTGTGGCACCACCGTCCCAGACTGCAAACTCCTGTTGCATGTCCCTCCAAGAAAC
 TCTTACCAAGATTTCTCATCTCTTGGGCGGAAGGAAGGACAGCCAGCAGACCACCAGG
 GACGTCCTACTGTACAGCAAAACAGACCGGCCAATGGCAGAGCCTTGCCAACTCCCGACA
 CGGCTGTACAAGGCCTCTGCCATCACCTTGACCGCAGCATCTATGTGCTGGGGGGCATG
 GCTGTGAGCTCAGGGAGGAGTCTGGTCAGTCACAATGTCTACATCTTCTCCCTGAACTC
 AATCAGTGGAGGCTGGGGGAGCCCATGCTGGTGGCCCGCTACTCCACAGAAGCACTGCC
 CATAAGAACTTCATCTTCTCCATCGGGGGGATTGGAGAAGGGCAGGAGCTCATGGGCTCC
 ATGGAAAGGTATGACAGCATCTGCAATGTCTGGGAGAGTATGGCCAGCATGCCCGTGGGG
 GTGCTCCACCCCGCAGTCTGTGTGAAAGACCAAGACTCTATCTCTTTGGAGGAGAGGAC
 ATCATGCAGAACCTGTGCGCCTTATCCAGGTTTATCACATTTCCAGAACTCGTGGTTC
 AAAATGGAGACAAGAATGATCAAGAACGTGTGTGCCCTGCAGTGGTGCTTGGGGAGCGG
 ATTGTCAATTGTGGGAGGTTACACAAGGAGGATTCTTGCTTATGACCCTCAATCCAACAAA
 TTTGTCAAATGTGCGGACATGAAAGACCGGAGGATGCACCATGGGGCCACAGTGATGGGA
 AACAACTCTACGTGACGGGCGGGCGGCGGCTGACCACGGACTGCAACATTGAGGACTCC
 GCCTCCTTCGATTGCTACGACCCCGAGACGGACACCTGGACATCCCAGGGACAGCTGCCG
 CACAAGCTCTTTGACCATGCCTGCCTCACTCTC

Gene 120. >ENST00000330051 cDNA sequence

CTCTTCAAAGACCACGACTTCTCTTCTGACTTGTTGAGGCAGCTCAACAGCTTAAGGCAA
 AGCAGGATCCTGACTGATGTGAGCATCTGTGCCGGTGCCCGGGAGATCCCCTGCCACCGC
 AACGTGCTGGCCTCCAGCAGCCCCCTACTTCAGGGCTATGTTCTGCAGCAGCTTCCGGGAG
 AAGAGTGAAGCCAAAGTGCAGCTGAAAGGCATTGACCCCCCAACCCTGGACCAGATCGTC
 TCCTACGTGTATACGGGGGAGGCACATATTGCCACTGACAATGTCTCTCCCGTGATGGAG
 GCCGCCTCCATGCTACAGTTCCCCAAGCTGTTTGGAGGCCTGCTCCTCGTACTTGCAGAGC
 CAGTTGGCCCCCAGCAACTGCCTGGGTATGATCAGACTCTCAGAAATCTTAAGCTGCGAG
 ACCCTCAAGAAGAAAGCCAGGGAGGTGGCACTGACGTCCTTCCCAGAGGTGGCCGCATCG
 GCCGACCTGAAGGAGCTCTGTGCTTGGAGTTGAGGGACTATCTCGGAGATGATGGGCTC
 TGTGGGGAGGAGGAAAAGGTGTTTGGAGCCCTCATGGTTTGGATCAAGCATGACCTCCAG
 GCCCGGAAGCGATACATGCAGGAACTGTTCAAGCAGGTGAGGCTGCAGTACATCCACCCA
 GCCTTCTTTCACTTTCATCGCCAACGATGCCCTCCTGCAGTCTCTGCCTGCATGCCAG
 ATCATCTTGGAGACCGCCAAGAGACAGATGTTCTCTTTGTGTGGCACCACCGTCCCAGAC
 TGCAAACTCCTGTTGCATGTCCCTCCAAGAACTCTTACCAAGATTTCTCATCTCTTGG
 GGCGGAAGGAAGGACAGCCAGCAGACCACAGGGACGTCTACTGTACAGCAACAGACC
 GGCCAATGGCAGAGCCTTGCCAACTCCCGACACGGCTGTACAAGGCCTCTGCCATCACC
 TTGCACCGCAGCATCTATGTGCTGGGGGGCATGGCTGTGAGCTCAGGGAGGAGTCTGGTC
 AGTCACAATGTCTACATCTTCTCCCTGAAACTCAATCAGTGGAGGCTGGGGGAGCCCATG
 CTGGTGGCCCGCTACTCCACAGAAGCACTGCCCATAGAACTTCATCTTCTCCATCGGG
 GGGATTGGAGAAGGGCAGGAGCTCATGGGCTCCATGGAAAGGTATGACAGCATCTGCAAT
 GTCTGGGAGAGTATGGCCAGCATGCCCGTGGGGGTGCTCCACCCCGAGTCGCTGTGAAA
 GACCAAAGACTCTATCTCTTTGGAGGAGAGGACTCATGCAGAACCTGTGCGCCTTATCC
 AGGAGGATTCTTGCTTATGACCCTCAATCCAACAAATTTGTCAAATGTGCGGACATGAAA
 GACCGGAGGATGCACCATGGGGCCACAGTGATGGGAAACAACTCTACGTGACGGGCGGG
 CGGCGGCTGACCACGGACTGCAACATTGAGGACTCCGCCTCCTTCGATTGCTACGACCCC
 GAGACGGACACCTGGACA

Gene 121. >ENST00000329589 cDNA sequence

CTCTTCAAAGACCACGACTTCTCTTCTGACTTGTTGAGGCAGCTCAACAGCTTAAGGCAA

FIGURE 1 (CONT'D)

AGCAGGATCCTGACTGATGTGAGCATCTGTGCCGGTGCCCGGGAGATCCCCTGCCACCGC
AACGTGCTGGCCTCCAGCAGCCCCCTACTTCAGGGCTATGTTCTGCAGCAGCTTCCGGGAG
AAGAGTGAAGCCAAAGTGCAGCTGAAAGGCATTGACCCCCAACCCCTGGACCAGATCGTC
TCCTACGTGTATACGGGGGAGGCACATATTGCCACTGACAATGTCTCCCGTGATGGAG
GCCGCTCCATGCTACAGTTCCCAAGCTGTTTGAGGCCTGCTCCTCGTACTTGCAGAGC
CAGTTGGCCCCCAGCAACTGCCTGGGTATGATCAGACTCTCAGAAATCTTAAGCTGCGAG
ACCCTCAAGAAGAAAGCCAGGGAGGTGGCACTGACGTCTTCCAGAGGTGGCCGCATCG
GCCGACCTGAAGGAGCTCTGTGCCTTGAGTTGAGGGACTATCTCGGAGATGATGGGCTC
TGTGGGGAGGAGGAAAAGGTGTTTGAGGCCCTCATGGTTTGATCAAGCATGACCTCCAG
GCCCGGAAGCGATACATGCAGGAACTGTTCAAGCAGGTGAGGCTGCAGTACATCCACCCA
GCCTTCTTTTACCACCTTCATCGCCAACGATGCCCTCCTGCAGTCTCGCCTGCATGCCAG
ATCATCTTGGAGACCGCCAAGAGACAGATGTTCTCTTTGTGTGGCACCACCGTCCCAGAC
TGCAAACCTCCTGTTGCATGTCCCTCCAAGAACTCTTACCAAGATTTCTCATCCTCTTG
GGCGGAAGGAAGGACAGCCAGCAGACCACAGGGACGTCTACTGTACAGCAAACAGACC
GGCCAATGGCAGAGCCTTGCCAACTCCCGACACGGCTGTACAAGGCCTCTGCCATCACC
TTGCACCGCAGCATCTATGTGCTGGGGGGCATGGCTGTGAGCTCAGGGAGGAGTCTGGTC
AGTCACAATGTCTACATCTTCTCCCTGAAACTCAATCAGTGGAGGCTGGGGGAGCCATG
CTGGTGGCCCCGCTACTCCACAGAAGCACTGCCATAAGAACTTCATCTTCTCCATCGGG
GGGATTGGAGAAGGGCAGGAGCTCATGGGCTCCATGGAAAGGAGGATTCTTGCTTATGAC
CCTCAATCCAACAAATTTGTCAAATGTGCGGACATGAAAGACCGGAGGATGCACCATGGG
GCCACAGTGATGGGAAACAACTCTACGTGACGGGCGGGCGGCGGCTGACCACGGACTGC
AACATTGAGGACTCCGCTCCTTCGATTGCTACGACCCCGAGACGGACACCTGG

Gene 122. >ENST00000262219 cDNA sequence

CTGTTGTAACTTTGCCTGTAGGAGGACTGATCTCTTGATGAAATACAGAAAAACCATCT
CAGAAAAAGGAAATGGGCAATCGTCATGCTAAAGCGAGCAGTCCTCAGGGTTTTGATGT
GGATCGAGATGCCAAAAAGCTGAACAAAGCCTGCAAAGGAATGGGGACCAATGAAGCAGC
CATCATTGAAATCTTATCGGGCAGGACATCAGATGAGAGGCAACAAATCAAGCAAAAGTA
CAAGGCAACGTACGGCAAGGAGCTGGAGGAAGTACTCAAGAGTGAGCTGAGTGGAACTT
CGAGAAGACAGCGTTGGCCCTTCTGGACCGTCCCAGCGAGTACGCCGCCCGGCAGCTGCA
GAAGGCTATGAAGGGTCTGGGCACAGATGAGTCCGTCTCATTGAGGTCTGTGCACGAG
GACCAATAAGGAAATCATCGCCATTAAAGAGGCCTACCAAAGGCTATTTGATAGGAGCCT
CGAATCAGATGTCAAAGGTGATACAAGTGGAAACCTAAAAAAATCCTGGTGTCTCTGCT
GCAGGCTAATCGCAATGAAGGAGATGACGTGGACAAAGATCTAGCTGGTCAGGATGCCAA
AGATCTGTATGATGTATGGGAAGGCCGCTGGGGCACTGATGAGCTTGCGTTCAATGAAGT
CCTGGCCAAGAGGAGCTACAAGCAGTTACGAGCCACCTTTCAAGCCTATCAAATTCTCAT
TGGCAAAGACATAGAAGAAGCCATTGAAGAAGAAACATCAGGCGACTTGCAAGAGGCCTA
TTTAACTCTCGTGAGATGTGCCCAGGATTGTGAGGACTATTTTGCTGAACGTCTGTACAA
GTCGATGAAGGGTGCGGGGACCGATGAGGAGACGTTGATTGCGATAGTCGTGACCAGGGC
CGAGGTGGACCTTCAGGGGATCAAAGCAAAGTTCCAAGAGAAGTATCAGAAGTCTCTCTC
TGACATGGTTGCTCAGATACCTCCGGGGACTTCCGGAACTGCTAGTAGCCCTCTTGCA
CTGAGCCAAGCCAGGGCAATAGGAACACAGGGTGGAAACCGCCTTTGTCAAGAGCACATTC
CAAATCAAACCTTGCAAATGAGACTCCCGCACGAAAACCTTAAGAGTCCCGGATTACTTT
CTTGGCAGCTTAAGTGGCGCAGCCAGGCCAAGCTGTGTAAGTTAAGGGCAGTAACGTTAA
GATGCGTGGGCAGGGCACCTTGAACCTTGGCTTAGCAAGCATCTAGGCTGCCTCTTCACT
TTCTTTTAGCATGGTAACTGGATGTTTTCTAAACACTAATGAAATCAGCAGTTGATGAAA
AAACTATGCATTTGTAATGGCACATTTAGAAGGATATGCATCACACAAGTAAGGTACAGG
AAAGACAAAATTAACAATTTATTAATTTTCTTCTGTGTGTTCAATTTGAAAGCCTCAT
TGTTAATTAAAGTTGTGGATTATGCCTCT

Gene 123. >ENST00000334705 cDNA sequence

CTAGGAAGAACTTGGAGCTGTTTCAGGCGATCCAGCCTCCAATCGCTGCTGCTCTTGTAC
TCGGTTGGCCCGGGCGGCGCTGAACTGTGCGGAGCCTAGGCCATGGGGCAGCCTGGGCCT
TCTGCAGTGTGAGGCGCGGGCCTCCCGCTGCTCCGCTGACAGGCTGCGGGCGGGCAG
GCGGGAGGCGTAGTGTGGGTGCGGGTGGCGGCCCCGGCCGCGGCCCTGGCCGCGGCATC
ATGAACATAGACGTGGAGTTCCACATCCGGCACTAACCCTGGAAACAAGTTGCCGGCC

FIGURE 1 (CONT'D)

AACGTGAGACAGAGTCTTGGAAATTACAGAGAGAATATGAAAAGCAGGTTGTCCTGTAC
 AGTATCCGCAATCAGTTACGATATAGAAATAACTTAGTTAAACATGTCAAGAAAGATGAA
 CGCAGATACTATGAGGAACTGCTAAAGTACAGCCGAGATCATCTCATGCTGTACCCCTTAC
 CATCTATCGGATATTGTATGTTATGTTTGTCTATAAAAGAAAAAATACTAATATTAAATA
 ATTTCTTACGACTCTGAGTCACTCACTTATTTTTCCAATAATTGATATTGTACATTCTTA
 GTGCCATTAGGTATGTATGTATGTAACCTTTTACAGTTTTTTCAGCTGAAAGTTGTAAGTAT
 TTTTTTTTTTTGATCGGGGCTCTTAATCTCATTTTAATTTCTTTTGTGTTGAACTGTAGT
 TATTTTATTTATTTCTATATTAACCATCTAAACCAACTGTAATGACATGTACACTAATAC
 AGAATTGAACATTTGTAGTTGTTGGCAGTGAACCCAGTTGTTGGTGAATTTAAAGCTTAA
 AATATGGGAATGATTTGCTGCTATATTTCTTTGAGAGAGAAAGGAGGAAGAAATAGAAC
 CTAATAGTGATCATGAATTTTAGGGAAAGTACCGAAGAACCATGGGGTCCCCTCTGGTTT
 CTTGTGTTGAATGAGGCAAGGGTAATCATCTGATTCCGAGCTGAAGACCTCTGGTCCTCT
 TAAGGAGGGGAGAGTGCATTTTTAGAGCTTTTAGCAAAATGTGAAAAGCTGATGTTTGCGC
 CTTGCTTTGTGAATTTGGCTTTGTTTTACTTATACATTAACTCATGTAATCTCTTAAATC
 TTACAAGCATTGATCCATTTCAACAAAAGGTAAATTTAAATGCAGACTTTGTTATTTG
 CCAAAGAAGATTGATGAAAATTTACGTCCAATTATTTGCAATAGTTAATTTCAATTTG
 GCTTTTTACCATGTTTCTTCTTTCTTTTTCCCGCTTCTTAATGTAATTTAAACCTGG
 CAAACATTCTTTAGAAACCAAGAGGAAAGAAAGAAACAAATATCAAAAAGACATAGAATT
 TAATATTGATACAATTTACCTCTAAATGGATTTGAAGAAATGCAACTTTATATCAAAA
 AATGTCATCTGATTTCTTTGTTTCTTTTTTAAATTATGTAATCAGATGATTTTATGTTT
 TTTTTTCAGGGGAGCGGAATATTGGTTTCTTTTACTTGTGTTTTCAGTTTTCTCTGCCA
 TTCATGTTTTCTTTTTGTGTTTCAATACAATTTGTATTTAAGGATTTTAAAA
 TACCAAACGTAACTGAGTACAGTGGATCGTTTTCTGTTAGGATGTTAATATTATACAAT
 GAAATCTATAAAGTGTTGTCAATTTGATTATTGACACATATAACATGTTTACAAATAAAC
 TGTGGTATTGATC

Gene 124. >ENST00000311922 cDNA sequence

GCGGCCGCCCCAGCGAGGCTCCGGGAGCCCTTGCTGCGGGGCTCCGGGGACTCGAGCC
 GGCCTCCGCCTCCCGGACGCACAGCCAGCGTGGTCCCCGCGTGCAACGCGAGCGCCGGGG
 AGTGGCTCCTGCTTTGCCCCCTCGTGGGGGCGGAGCCAAGACCAGTCTGCAAACTCCATCC
 CGCCGGCTGGAAGAAGTGCAGGAGCCGGCACCAAACCCGAGCGTCTTCCCGCGCGGATC
 CCGGGACTTAAAAAGCCGGGGCCACCCCGGCCAGGACGGGATGCGGGTCCGGTCCGGTGC
 GCTCTGCCATGAGCGGCGCCTCGCAGCCCCGCGGCCCGGCCCTGCTCTTCCAGCCACCC
 GAGGCGTCCCGGCCAAACGCCTGCTGGACGCGGACGACGCGGCGGCTGTGGCGGCCAAGT
 GCCCGCGCCTCTCCGAGTGCTCCAGCCCCCGGACTACCTCAGCCCCCGGCTCGCCCT
 GCAGCCCGCAGCCCCCGCCTGCCGCTCCGGGGGCGGCGGAGGCTCCGGGAGCGCGCCGG
 GGCCAGCCGCATCGCCGACTACCTGCTGCTGCCCCCTAGCCGAGCGCGAGCATGTGTCCC
 GGGCGCTGTGCATCCACACTGGACGCGAGCTGCGCTGCAAGGTGTTTCCCATTAACAACACT
 ACCAGGACAAAATCAGGCCTTACATCCAGCTGCCATCGCACAGCAACATTACTGGCATTG
 TGGAAGTGATCCTTGGGGAAACCAAGGCCTATGTCTTCTTTGAGAAGGACTTTGGGGACA
 TGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCCGGCTCTTCA
 AGCAGATTGTCTCCGCCGTCGCCCCACTGCCACCAGTCAGCCATCGTGCTGGGGGACCTGA
 AGCTTAGGAAGTTCTGCTTCTCCACGGAGGAGAGAACCCAGCTTAGACTAGAAAGTCTAG
 AAGACACACACATAATGAAGGGGAAGATGATGCTTTGTGAGACAAACATGGCTGCCCAG
 CCTACGTGAGCCCTGAGATCCTCAACACCACTGGGACCTACTCCGGAAGGCTGCGGACG
 TTTGGAGCCTGGGGGTGATGCTCTACACCTTCTGGTTGGACGATACCCCTTCCATGACT
 CAGACCCAGTGCCCTTTTCTCCAAAATTGGCGTGGACAGTTCTGCATTCTCTGAGCACA
 TTTCCCCCAAAGCCAGGTGCCTCATTCGCAGCCTCTTGAGACGGGAGCCCTCCGAGAGAC
 TCACTGCCCCGAGATCCTACTGCACCCCTGGTTTGAGTCCGTCTTGGAACCCGGGTACA
 TCGACTCAGAAATAGGAACTTCAGACCAGATTGTTCCAGAGTACCAGGAGGACAGTGACA
 TTAGTTCCTTCTTCTGCTAATCCCCAAAACCTCAGAAACCTCATAATTCTTAACACCTGG
 CATTTCCATTTCTAAAGATGGACAGGCCCTTTGGCGTGGTACCAACCAGATAATGACTGC
 ATCAGGATGAAAGCTGCTGAACTCGGCATGGCGCCTCCTCTTCTCTGTTGGGATGAGTGA
 CTTTATTGATTTGAGCAGCATATGCTGTGATTGGCTGCCCTGCAATTTGTTTCCCTTAA
 GGAACCTCACCAACTATCTCTGCTGGATTTGGGAGTCCGCATCTTTGTGGAGGGCAG

FIGURE 1 (CONT'D)

AGTATGGACATCTTACACCCGGTGGTCAAGTGTGTAATAAACTTGAGCATTCTGAATGGGA
GAAAAAGCAAATCGCACAATGACATATTTTGGAGTAATAACCGTATTTTTTACAGGGTGAC
AAATTGGGCCAATAAATCTGCCATCTTTGAACTCATCTTTGGTGGCTAGACTGCTACGGC
AGCTTCTCTGATGGGAAAGTTCTTTTTTGGCTTAACACTCACCTTTCTTCACACTCAC
ATTTACCAATGACTCTGCTCCGTTTTTGGAGCAGACTGTTTTAAGTTGCTCAGGAGCCTG
ATGGAACCATGAACCGAGACTCTTCTCTGTTTCTGCGCAAGACCTCATCTGCACTAATGC
CTTCTCCCTGACCTTGACACTTCCCCCTTTAGCTATAAAAGCACTTACCAGCCGAACGTG
GAACAGTATCACAAAAGATTCCATCTCCCAACGATTTTCAGAACTCTGAGCTCAGAGAGAC
TCCAGATTTTTAAAAATAATTTGAGTGCTTGGAACTATTAGCTTTTTTAAGTTCCTTCCA
AATATGTTAGTACCTACCTTTTACTTTTTTCCCCAAGACCATCTCAGGGTGGAGCATTCTG
TCTAAGAGAAGAAAGATAAGGAGGCTCCACCCACCTCTCCCAAGAGCAGACATTAAACA
TCTTTGTGCTTTGAAGAGAGTGAATTTTGGATAGTCTTGTGATTCTCAGACTAACTTCCA
GAATTATACTTTAACCCCTCCAGATATGGTCCGCTTTGGCATTGTGTGTACATCTGCA
GTTTTGCATGGTGGGTTGTTAATATTTCAAATGTGTGGTTTATGAATACGTCTGTATAAT
CGGCTTCTGGAGTGAAACAGCAAAACCCCAAATCTTCAAAGTTGGAAGGAACTTTAAAAAT
CATCCGGTCCAATCTCTTTCCTCTTCTGCCACCTCCCAAGGCAGAAATCCCCTCTTCAG
CTTCTTTTTGTAGGTGGGAATCCAGCCTCTGTTAGATATGTCCAGAGATGGAACTCACTC
CCCTACAAAAGATGGAGCTTAATGGAGAAATTGCAACTTTCATTAAAAAACAAATTGAGA
TGAAATATCAGTAACTGTCTTGGACAGTGCTGAAATCAGGTGGTTAAACGGGTAAACAAA
ATATACTGTATTTTTGAGAAATGGCACAAAAACAGGCAGTCATCTTTAAGGGCTATGCCTA
GGCAAACTACTAACATGCATTGTGAGAATGCCGTGTATACCTCACGTACTGTGTACTTTG
TACATATATTTTTACCTTTTATACCTATGTTTCGATTTTGTGTTTGTGTTTGTGTTCTGGC
TTTGAGGCTTGTTTTGTGTTGTCTGTGTCTGTCTGAATAACCTGCGTGTCTAAAACACGTG
AAATGTGAATGATTATTGGCAATATTACCTTGACAGAATCATGGGACTTTGAGAAGAGGG
AGGACAGAGGCCTCTGTGCGACTAACGCTCTCGTGGTTGCTCGACTGTTGTATCTGTGAT
ACATTATCCGACTAAGGACTCTGGGCTGGCAGGGCCTTCTGCCGGGAAAGCTAGAAACAC
TAGGTTCTTCTGTACATACGTGTATATATGTGAACAGTGAGATGGCCGTTTCTGACTTG
TAGAGAAATTTTAATAAACCTGGTTTTCGT

Gene 125. >ENST00000325963 cDNA sequence

AGAAATTCTTCAGAAGGAAAACAGCCCGTGATCTTCTACCAATAAAGCCAGTGGAAATTG
CCATAGAGGCGTGGTGGGTGGTGCAGGCTGGCTATATCACAGAAGATGACATCAAGATAT
GCACTTTGCCTGAGAAATGCGCTGTTGATAAGATCATCGATTTCAGGCCCTCAACTCTCTG
GATCACTAGATTACAATGTAGTACATAGTTTGTATAACAAAGGATTTATTTATCTGGATG
TACCAATATCTGATGACAGTTGTATAGCAGTTCCACCTCTTGAAGGTTTTGTAATGAATC
GAGTGCAAGGTGATTATTTTTGAACTCTACTCTATAAGATATTTGTTTCAATAGATGAGC
ACACAAATGTTGCAGAGCTTGCAAATGTCTTGGAGATTGACTTATCCCTGGTTAAGAATG
CTGTTTCAATGTATTGCCGATTGGGCTTTGCCCATAGAAGGGACAAGTAATTAATTTGG
ATCAACTTCATTTCATCATGGAAGAATGTTCCATCCGTAAAACAGATTAAAGAGTACCTTAG
ATCCACAGAAGATGCTCTTGTCTATGGGATGGAGGGGAAAGTAGGAGTCTGTACAAGAAG
CTTCATCGGCAACTGACACTGATACAAATAGTCAAGAAGATCCAGCTGACACAGCCAGTG
TAAGCAGCCTGAGTCTGTCTACAGGACACACGAAGCGCATCGCATTCCCTGTTTGACTCCA
CTCTTACTGCCTTCTTAATGATGGGAAATCTTTCACCAAACCTTGAAAAGTCATGCAGTCA
CAATGTTTTGAAGTAGGCAAACTCTCAGATGAGTCTCTGGACAGCTTTCTTATAGAACTAG
AAAAGGTTTCAGAGCACTGGTGAAGGAGAAGCACAGAGATATTTTGATCATGCACTTACTC
TGAGAAACACAATACTGTTTCTGCGTCATAACAAAGATCTAGTTGCGCAAACTGCACAGC
CAGACCAACCCAATTATGGTTTTCTCTGGATCTCTTACGCTGTGAAAGCCTTCTTGGTT
TGGACCCTGCAACTTGACAGAGGTTCTAAACAAAATTAACGCTGCTTGTGTTCCATGG
CTCCCCTCACCAATGAAATCCGGCCTGTGACAGCTGCACCCCTCAGCATATTGGACCAG
CTATCCCAGAAGTCAGCTCTGTCTGGTTTAACTGTACATTTATCATGTCACTGGACAAG
GACCACCATCCCTTTTATTGTCCAAAGGTACAAGACTTCGAAAACCTGCCAGATATATTTT
AGAGTTATGATCGATTGCTAATAACATCTTGGGGTCATGATCCTGGAGTAGTTCTTACCT
CAAATGTGCTCACGATGTTGAATGATGCTTTAAACACATTCTGCAGTTTTAATTCAGGGGC
ATGGTCTGCATGGGATAGGAGAACTGTCCATGTCCCATTTCCATTTGATGAAACAGAAC
TACAAGGAGAGTTCACTCGTGTCAATATGGGTGTTTATAAAGCATTGCAGATACTAAGGA

FIGURE 1 (CONT'D)

ACAGAGTGGACTTACAGCATCTCTGTGGATATGTCACCATGTTGAATGCTTCCAGCCAAC
TTGCAGATAGAAAACCTCAGTGATGCTTCTGATGAGAGAGGAGAACCTGATTTGGCTTCTG
GCTCAGATGTAAATGGGAGTACAGAGTCATTTGAAATGGTCATTGAGGAAGCAACTATAG
ATTACAGCAACAAAGCAAACCTCTGGTGCCACAACAGAAGCAGATTGGGTTCTCTCGAGC
TGTGCTTTTGGAAATCCACTGTTTCAGTTCCGAATTAAACCGGAAAGTTTGTAGGAAAATTG
CTGCACATGGCCTTTTCAGAAAAGAGAGCCCTTCAAAACCTCTTACATTCCAGTAGAAAAC
TCTCTCTGCAAGTCCTTAACTTTTGTTCATCTCATTCCAGGAAGGTGCTTCAATATTGGATA
TTCACACAGAGCCCAGTTTTTTCAAGTTTGTCTTTCACAGTCATCGTGTGCTGACATGGGTG
TTCCACTTCTCTGCAAAAACCTTAATATTTAAAGATGGTGTCTTATCAGAATGGAGTGGAC
GGTCACCTTCTCTCACTTCTTATTGCTAATCTCCATTTGCAATAATTTGGTTACACCATTT
GTTGCTCACACTTTCTGCCTTTTTTTCTTTCTTAAAGTTAGCTTTATAGTGTGAGCCACTA
AAAAGCATCCTGCTGCTGCAAGTCTTGTCTTAACTAATATTTAAAGTTGGGG

Gene 126. >ENST00000328599 cDNA sequence

TTTCCGGCACCGGCATGGCCGGGTGAGCTGCAGGCTACCTTATTTAAGACCGGAATTTA
GTCAGCCTGGTGAGCCGACTCTGAGGAGATGGAGTATCGCTGAGGTGATGAGAGAGAATG
TGGTTGTTAGCAACATGGAGAGAGAAAGTGGGAAGCCCGTGGCTGTTGTGCGAGTTGTGA
CTGAGCCTTGGTTTACCCAGCGATACAGAGAATATCTCCAGAGGCAGAACTCTTTGATA
CACAGCACCGTGTGGAAAAGATGCCGGATGGCTCGGTGGCGCTACCGGTGCTGGGAGAGA
CGCTTCCAGAGCAGCACCTGCAGGAGCTGAGGAATCGTGTTGCCCCAGGCAGTCCCTGTA
TGCTCACGCAGCTCCCGGATCCTGTTCTTTTGAAGAGGGCCAGGGTTGTTTACCTGCCC
AAAAATTGTGTCTTGAGGTGAGTCGCTGGGTGGAGGGTCCGGGAGTCAAGTGGTCAGCCG
AGTTGGAGGCTGATTTGCCCCGATCATGGCAACCGCATGGTAATCTCTTGTGCTGAGTG
AAGACTGTTTTCCAAGCCAAGCAGTGGAAAAATCTGGGACCGGAACTCTGGGAGACCGTTG
CCTTGGCACTTGGCGTCCAGCGTTTGGCAAAACGAGGGCGGGTATCACCGGATGGTACTC
GAACTCCAGCAGTGACACTGCTGCTGGGTGACCATGGCTGGGTAGAGCATGTGGATAATG
GTATCCGTTATAAGTTTGGAGTGACCCAGTGTATGTTCTCCTTTGGAAACATCACTGAGA
AGCTTCGAGTGGCATCGTTGTCTGTGCTGGAGAAGTGCTGGTGGATCTCTATGCAGGGA
TTGGTTATTTTACATTGCCTTTCTAGTTTCATGCTGGTGCTGCCTTCGTCCATGCTTGTG
AGTGGAAATCCCCATGCTGTAGTTGCTCTGAGAAATAACCTTGAGATCAATGGAGTAGCAG
ATCGGTGCCAAATACACTTTGGAGATAACAGAAAACCTGAAGCTCTCAAATATTGCAGATA
GGGTGATCCTGGGGCTGATTCCCAGCTCTGAAGAAGGCTGGGCCATTGCCTGCCAAGTGT
TAAGGCAGGATGCTGGAGGCATTTTGCATATCCACCAAATGTGGAATCTTTCCAGGGA
AGAATCTTCAGGCTCTTGGAGTCAGCAAAGTAGAGAAAGAGCATTGGCTGTATCCTCAGC
AAATTACCACCAACCAATGGAAAAATGGAGCTACCAGGGATTCTAGGGGAAAAATGCTGT
CACCAGCCACCAAGCCAGAGTGGCAAAGGTGGGCAGAATCTGCAGAACTCGAATCGCCA
CTCTTCTTCAGCAGGTGCATGGGAAACCATGGAAGACACAAATTCTGCACATCCAACCAG
TGAAATCCTATGCTCCCATGTGGATCACATAGTCTGGATCTGGAATGCTGCCCCCTGTC
CTTCAGTTGGCTAGAGGAGGTAGATCCTGGGACACATGGGATCCACGTGCGAGTGGCCCT
TAAATGTATCAGTTCAGTCCAGGTTGTCTCCCTTTTGTCCCCTGGTGATCAGTTTTTTT
CATATTTTATAGCCCTGAAAGCAGGCTCTAGATCAATTCAAATTATTTTCAATTTGTCTTTC
ATTGATAACAGAAAATGAAATACCTGTTTGGGAGAAGCAGCATGGCCCATTGAAATGAGG
CTCATCTGTGCAATTATGAATTCCAAATTCTGACCTCAGTTCTGGAATTGAAGTTTCAGT
ATGTTTTTGGCCTCGGGTTTCTGTTATTTGCAAAATGAGAGTTTCTTTGAACTGTCTCACGT
GACTATTAAGCAACTATACACAGGACATCGGTTATTTTAGAGTGAAAGACACAGTGCTTT
TTCCAAATTGCTCTGGCTACCATATAGAAAATTGACTGAAGGAGGGCCAAGATGGAAACA
GAGAGACCAGTGAGGAGGCTTCTGTGGTTGTCCAGGTCTGAGGTGATGGTAACCTTGGACT
CGGATGGTGGTAATGGGAGGTAGATTGATATGATAAATAAAATTGACAGACC

Gene 127. >ENST00000297632 cDNA sequence

GGGGTAGCGGCGGCGGCGGCGGCTGCGGCTCGGGAGCGCGGCTGCTTTGAGGGCTCGGGA
ACCTTACAGAGTGGGGACGTGGGGAGGCTAGAGGGTGAGAAAGCTGGCGGGAGAGTAGGG
CGGCGCTGGAGGAGGGCGGTGCGTGGCTGACTCATCCTCTGGAAGATCAGACTGACAGAG
ACACACACTAGCCCGCCCCCGCCCGCCGCGCCGCTCCTCCTCAGCCGGGAGGCGCCCGCC
CGCACCGACCGCCCGCCCTCTCCGGGCGCTGTCCGGGCGCGGCGCTCTCAGAGAAAGTTT
TTCCCATCGGAGGGGCGGGAGCCCGCGGGCCTTTTGGAAAGGAAGTGGGGACGGAACA

FIGURE 1 (CONT'D)

GGAGGCGAGAGCCGCGCGGGCCCGCGGAGTGCATGGTGCCCGGCGCCTCGGCTGCCTGGC
 AGGAGGACCTCGGGGCGGGGTGAGCTGAGCCAGCTCCTTCTCGCCTCAGCCGCGCCAG
 AAACCGCCTTGCCGGACGGCCGCGGGGTCCCAGCTCCTCAGCTCGCCATGTCCCGGCTG
 CTGCCGCTGCTGAGGAGCCGGACCGCGCGCAGCCTGAGGCGGGGCCCGCCGCGCGCC
 GCGCCCCGCGCCGCTCCTGGTGCTGCTGCGGGCGGGGCTGCTGGCGCTCGCGCCCCC
 GCGGCTTGCCGGGCGGCCCCAGGCGGCTGGGCACGCACCCCAAGAAGGAGCCCATGGAG
 GCGCTGAACACGGCGCAGGGCGCGCGGACTTCATCTACAGCCTGCACTCCACGGAGAGG
 AGCTGCCTGCTCAAAGAGCTGCACCGCTTCGAGTCTATTGCCATTGCCAAGAAAAATTG
 GAAGCTCCACCACCCACCCAGGACAGCTGAGATATGTATTATCCACAATGCGATACCT
 TTCATAGGGTTTGGCTTTTTGGATAATGCAATTATGATTGTTGCTGGAACCATATTGAA
 ATGTCTATTGGAATTATTTTGGGAATTTCAACTATGGCAGCTGCTGCTTTGGGAAATCTT
 GTGTGAGATCTAGCTGGACTTGGACTTGCAGGCTACGTTGAAGCATTGGCTTCAGGTTA
 GGCCTGTCAATTCCTGATCTCACACCAAAGCAAGTTGACATGTGGCAAACACGTCTTAGT
 ACACATTTGGGCAAAGCTGTTGGGGTGACTATTGGCTGCATTCTAGGAATGTTTCCTTTA
 ATTTTCTTTGGAGGAGGTGAAGAAGATGAAAACTGGAAACGAAAAGTTAATCCTCTTAG
 AATACCTATAAAAAGATGTAACTAATGTACCTCAGTAATTAATATGCTGTCAACAT
 TTAGGAATTAAGACAGTAACAGTATAGATATGGGATCAAATAATTTAGCATGTATTATGG
 AAAACACTAACTTATTGTGGCTTGATCTTCTTAGGACATCTTTTTTAAAAGCTGTTTAG
 TATCATTTTGTGTATATTGTTGAAATGCTTTTTTCAATAGCAGTCAACATTTTATCCT
 TTCTTTTTATATTATAATGTTATTTAAGTGTCAATTGATGTACTGTATTGACTTGGGGTT
 TGCTTATTTGTTACTTAACATGTGTACATGCATGAAAGCATTTTTCGTTGTTCCCTGATA
 GTTACATTTCAACCTTGGGATTTTTCCAAATTACTTAAGATGTTAATGTGAGTTAAAGA
 TTTTTTACCCTCTTTTTGGGAACATCAATTTTGTACTGTTATGCAGTAAACATTTATAA
 TAATATAATTTAGTCATTTCTTAAGTGTACATCTATTGAAATGGATATAGATACAGG
 TTTTAAGTATTTTAAGTATATATTACTTATTTTAATTTTCTGACTTTACTATTTTAAGG
 CCAGAGGGTTAATCACAAAGAGCAATTATGTGGTCTCCCTGCTACATGAAACCGTGTATA
 CTAACAAGCGTACAATTTTTAGTTGATTTTTTTTAACTTTTAGTTTCCAGTTTTGAAT
 AATTACATGGTGGATTCTGACTTTTGAGGGGAAGCAAATGATTATTTTAGAGTCTTTGAA
 ATGGGGATTGTGGAATTAGATTGAACTAAGGGATTTAACATGATGCTTGGAAATTAAGAG
 ACTAAAGCTTTTTTTAAAAAAGGTGGAAAATAGGAACTGTCAAGAAGGTTTATGGTATA
 AATGATGAAGTTGAAGTGATGTTTGAAAGATTAATGAGATACAATTTATATTATTTGGTA
 AGGTTTTTTTTTTTTCCCTCCAAAGATGTCATCTTCTCATCTGAATGGAATAAGTCTGAAT
 ACCCATATTCTACTCCTAATCTCATTATATCTTATTTAGTGAATTTATTTATGAATA
 ATTTCTGTTGAAGTGAAAAGTAGATATTTAATATTTTGCTTTTTTGCTACATAGTCTACT
 CAAAAATTACATGAGGAGAAATCCTTTTTCCCTTTGTTTTTCTTTTTCTTTTGTGG
 TATTTAAAGCATATTTTAGGTTGAAGTTACTTATTTCTAGTCTTGTACTTCTGGCTTAAG
 TATAACCATGTAAGAATTATAAATTTTAGTTTTCTGAACCCCTTAACTTTTTTAGCATGT
 GGTCTGTTACACATGCTAAAAAATTAGTCTTACTTGTAAACAGCGTAATTAAACACATCAT
 GGAGGAGAGAACTTAAATTTAAATAGTATTTTGGCTTTTGAAGTTATTTGTGTTGCTA
 AATAGATGCAGAGGTTTACAGCAGTTTATTTTAAGGTTTATTTATACATAATTACTTT
 GAACTCTTCAGAGTAGATATTTTTTACAAGGCAGTTTGTCAATAATTCTCTCATGCGCT
 TCAGAATGCATAAGTGCCATCCTTTAATCATAGACTTTGAGGAGAGAAAGCATAAAAATA
 TAGCATATAATCTAAAAATAATATATAACATGCACAAATAATGTGACATTCTTACTGAA
 TCAAATCATGATTCTAGAACTTGAGATCTTAAATAGAATTTGCGTTTGTATCTTCCATAT
 AATAACCACACACAGATAACCACACAAAAAATCCTTTGTAAAATTTCTGATTGATAGGAT
 TAGAGTGCTTAAATTTTTGGGGGGGAAGGGTGGGGTAAAGTGTAAGTGCTTTCTTTTGT
 CCCTAACTTGTGTATTGATGGCAGTCCACTCTGTTTTCTAAAAATGTATTTTACTGTGGT
 GCTTAACTTCTTATTAATTAATCCCCTATCAGAAACCTTG
 Gene 128. >ENST00000242558 cDNA sequence
 GCCCTCAGCATCGGACCAGAGTACTTGGTATCTGGATGAATCGACACTCACTGACAACAT
 CAAAAAGACACTGCACAAGTTCTGTGGCCCCCTCCCCTGTGGTCTTCAGTGATGTGAATC
 CATGTATCTGTCTTCCACGGAGCCGCCAGCCGCTGCTGAATGGGCATGTCTGCTGCGCCC
 TCTGAGGGGCCGTGAGCCAGAGGGCGTCTGGAACCTGCTAAGCATTGTGCGGGAGATGTT
 CAAGCGGAGGGACAGCAATGCTGCCCCCTTGTGGAAATCCTCACTGACCAGTGCCTCAC

FIGURE 1 (CONT'D)

CTATGAACAGATAACAGGTTGGTGGTATAGCGTACGTACCTCAGCCTCACACAGCAGTGC
CAGTGGGCACACGGGCCGTAGCAACGGGCAGTCAGAGGTGGCAGCCCATGCCTGTGCCAG
CATGTGTGACGAGATGGTCACACTGTGGAGGCTGGCCGTGCTGGACCCTGCACTCAGCCC
CCAGCGGCGCCGGGAACCTGTGTACGCAGCTGCGGCAGTGGCAACTGAAGGTGATTGAGAA
CGTCAAGCGGGGCCAACACAAGAAGACGCTGGAGCGGCTCTTCCCCGGCTTCCGGCCAGC
GGTGGAGGCCTGCTACTTCAACTGGGAAGAGGCCTACCCACTTCCTGGTGTACCTACAG
CGGCACTGACAGGAAGCTGGCACTGTGCTGGGCCCCGGGCCCTGCCCTCTCGGCCAGGTGC
CTCCCGCTCTGGGGGCTGGAGGAATCCCGGGACCGGCCCCGACCCCTTCCTACTGAGCC
AGCTGTGCGGCCCAAGGAGCCTGGGACCAAGCGAAAGGGCTTGGGTGAGGGGGTCCCCTC
ATCACAGCGGGGTCCCCGCCGCTCTCAGCTGAAGGGGGAGATAAAGCTCTACATAAGAT
GGGTCCAGGTGGGGGCAAAGCCAAGGCACTGGGTGGGGCTGGCAGTGGGAGCAAGGGCTC
AGCAGGTGGCGGAAGCAAGCGACGGCTGAGCAGCGAAGACAGCTCCCTGGAGCCAGACCT
GGCCGAGATGAGCCTGGATGACAGCAGCCTGGCCCTGGGCGCAGAGGCCAGCACCTTCGG
GGGATTCCCTGAGAGCCCTCCACCCTGTCTCTCCACGGTGGCTCCCGAGGCCCTTCCAC
TTTCCTTCTGAGCCCCCAGATACTTATGAAGAAGATGGTGGTGTGTACTTCTCGGAAGG
GCCTGAGCCTCCACAGCCTCTGTTGGCCCCCTGGCCTACTGCCTGGGGATGTCTGTAC
CCAGGACGACCTCCCTTCTACAGATGAGAGTGGCAATGGGCTTCCCAAACCAAAGAGGC
AGCCCCTGCACTTGGAGAGGAGGATGATGACTACCAGGCGTACTATCTGAATGCCAGGA
TGGGGCTGGGGGCGAGGAAGAGAAGGCCGAGGGCGGGGCTGGGGAGGAGCACGACCTGTT
TGCTGGGCTGAAGCCACTGGAACAGGAGAGTGCATGGAGGTACTGTTTGCCTGTGCTGA
GGCCCTGCATGCGCATGGCTATAGCAGTGAAGCCTCCCGTCTCACTGTGGAGCTTGCCCA
GGATCTGCTAGCCAACCCACCCGACCTCAAGGGCAAGAAGAACAAGGTATCCACGAGCCG
TCAGACCTGGGTGGCTACCAACACCCCTGAGCAAGGCGGCCTTCTGTTGACAGTGCTAAG
TGAGCGTCCAGAGCACCAACCTGGCCTTCCGAGTTGGCATGTTTGCCTTGGAGCTACA
GAGGCCTCCAGCTTCTACCAAGGCCTTGGAGGTGAAGCTGGCATAACAGGAGTCTGAGGT
GGCTGCCCTGCTCAAGAAGATCCCTCTGGGTCCAAGTGAGATGAGTACCATGCGGTGCCG
GGCAGAGGAACCTTGGGAGGGGACACTCTGTGACTATCGGCCTGTGTTGCCTCTCATGCT
GGCCAGTTTTCATCTTTGACGTTCTCTGTGCTCAGGTTCCCGGCCCCCAAGTCGCAACTG
GAACAGCGAGACACCTGGGGATGAGGAGCTTGGATTTGAAGCAGCAGTTGCTGCCTTGGG
CATGAAGACAACAGTGAGCGAGGCAGAACATCCCCCTTTATGTGAAGGCACACGTCGGGA
GAAGGGTGACCTGGCATTAGCACTAATGATCACTTACAAGGACGACCAGGCCAAGCTTAA
GAAGATCTTAGACAAACTCTTGGACCGAGAGAGCCAGACACATAAGCCACAGACGCTGAG
TTCTTTCTACTCATCTAGCCGCCCAACCCACAGCCAGCCAGAGGTCTCCTTCAAAGCACGG
GGGCCCATCTGCCCCAGGGGCCCTGCAACCACTGACCTCAGGCTCTGCAGGGCCTGCTCA
ACCAGGGAGTGTGGCAGGGGCTGGGCCAGGCCCCACTGAGGGCTTCAAGAGAAGAATGT
GCCTGAGAGTTCCCCACATTCCCCCTGTGAGGGTCTTCCATCTGAGGCAGCTTTGACCCC
AAGGCCAGAAGGGAAGGTTCTTAGCCGCTTGGCACTTGGCAGTCGTGGAGGCTATAATGG
ACGGGGATGGGGGTCCCCAGGACGGCCTAAGAAGAAGCACACAGGCATGGCCAGCATTGA
CAGCAGTGGCCCTGAAACAACATCGGATAGTTCCCCACCTTAAGCCGGAGACCACTTCG
AGGGGGCTGGGCCCCCACCTCCTGGGGTGGAGGTGAGGACAGTGACAGCATTAGCAGCTC
TTCTTCGGACTCCCTGGGCTCCTCATCTCCAGTGGAAGTCGCCGGGCCAGTGCCAGTGG
AGGAGCCCCGGGCGAAGACTGTTGAAGTTGGCAGGTACAAGGGCCGCCGCCCGAGAGTCA
TGCCCCCTCATGTACCCAATCAGCCATCAGAGGCAGCTGCACACTTCTACTTCGAGCTGGC
GAAGACAGTGCTGATCAAGGCAGGGGGCAAACAGCAGCACTTCCATTTTCAACATCCATC
TTCCTCAGGGGGCCACCAGGGTCTCACCGCAACCTGCACCTTTGCGCCTTCGAGATTGG
GCTTTATGCCCTTGGCCTGCACAACTTTGTTTCTCCCACTGGCTCTCACGTACTTATTC
TTCCACGTTTCTGGATTACAGGCCAGGCCATGGAGATAGGCAGCGCAGCCCTGACTAT
ACTGGTAGAATGCTGGGATGGGCACCTGACACCCCTGAGGTTGCATCCCTGGCTGACAG
GGCATCACGGGCAAGAGACTCCAATATGGTGAGGGCGGCAGCAGAGCTGGCCCTGAGCTG
CCTGCCTCACGCCCATGCATTGAACCTTAATGAGATCCAGCGGGCCCTGGTGAGTGCAA
GGAACAGGACAACCTGATGTTGGAGAAGGCCTGCATGGCAGTGGAAGAGGCAGCTAAGGG
TGGGGGCGTGACCTGAAGTGTGTTTGGAGGTGCTCACCAGTGGTTCTGGCTGTATGA
GCAAACCTGCAGGTGGCTCATCCACAGCCCGTGAAGGGGCTACAAGCTGTAGTGCCAGTGG
GATCAGGGCAGGTGGGGAAGCTGGGCGGGGTATGCCTGAGGGTAGAGGGGGCCAGGGAC

FIGURE 1 (CONT'D)

TGAGCCGGTTACAGTGGCAGCGGCAGCAGTGACAGCAGCAGCCACAGTGGTGCCCGTCAT
ATCGGTGGGGTCTAGTTTATACCCGGGTCCAGGACTGGGGCATGGCCACTCCCCTGGCCT
GCACCCCTACACTGCTCTACAGCCCCACCTGCCCTGTAGCCCTCAGTATCTCACTCACCC
AGCTCACCCCTGCCCACCCCATGCCTCACATGCCCCGGCCTGCCGTCTTCCCTGTGCCAG
CTCTGCATACCCACAGGTGAGACCAGTGTCTGCTGGGGGTAAGGCATGGGAAAATACT
GGGAATTCATAGGGGGTTGGAGTGGGTACTCTGGGAGTATAATTGGTCAGTCGGAGAGTC
CTGGTGAGGTGGTGGGAGTCTGGGGGACCCAGCCCACTAAAATAAGAAATGACGGCCGG
GCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGAGAGGCCGATGTGGGTGGATCACTT
GAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGGGAAACCCCGTCTCTACTAAAAAT
TAGCTGAGTGACGCCTGTAATCCCAGCTTCTTGGGAGGCTGAGATGGGAATCACTTGAA
CCTGGGAGGCAGAGGTTGCAGTGAGCCGATATCGTGCCACTGCACTCCAGCCTGGAGGAC
AGAGCGAGACTCTATCT

Gene 129. >ENST00000310153 cDNA sequence

CGTACTATCTGAATGCCCAGGATGGGGCTGGGGGCGAGGAAGAGAAGGCCGAGGGCGGGG
CTGGGGAGGAGCACGACCTGTTTGGCTGGGGCTGAAGCCACTGGAACAGGAGAGTCGCATGG
AGGTACTGTTTGCCTGTGCTGAGGCCCTGCATGCGCATGGCTATAGCAGTGAGGCCCTCCC
GTCTCACTGTGGAGCTTGCCAGGATCTGCTAGCCAACCCACCCGACCTCAAGGTAGAGC
CGCCCCCTGCCAAGGGCAAGAAGAACAAGGTATCCACGAGCCGTGAGACCTGGGTGGCTA
CCAACACCCTGAGCAAGGCGGCCTTCTGTTGACAGTGCTAAGTGAGCGTCCAGAGCACC
ACAACCTGGCCTTCCGAGTTGGCATGTTTGCCTTGGAGCTACAGAGGCCTCCAGCTTCTA
CCAAGGCCTTGGAGGTGAAGCTGGCATAACAGGAGTCTGAGGTGGCTGCCCTGCTCAAGA
AGATCCCTCTGGGTCCAAGTGAGATGAGTACCATGCGGTGCCGGGCAGAGGAACCTTCGGG
AGGGGACACTCTGTGACTATCGGCCTGTGTTGCCTCTCATGCTGGCCAGTTTCATCTTTG
ACGTTCTCTGTGCTCCAGTGTTTTCTCCACAGGTTCCCGGCCCCCAAGTCGCAACTGGA
ACAGCGAGACACCTGGGGATGAGGAGCTTGGATTTGAAGCAGCAGTTGCTGCCTTGGGCA
TGAAGACAACAGTGAGCGAGGCAGAACATCCCCTCTTATGTGAAGGCACACGTCGGGAGA
AGGGTGACCTGGCATTAGCACTAATGATCACTTACAAGGACGACCAGGCCAAGCTTAAGA
AGATCTTAGACAAACTCTTGGACCGAGAGAGCCAGACACATAAGCCACAGACGCTGAGTT
CTTTCTACTCATCTAGCCGCCCAACACAGCCAGCCAGAGGTCTCCTTCAAAGCACGGGG
GCCCATCTGCCCCAGGGGCCCTGCAACCACTGACCTCAGGCTCTGCAGGGCCTGCTCAAC
CAGGGAGTGTGGCAGGGGCTGGGCCAGGCCCACTGAGGGCTTCAAGAGAAGAATGTGC
CTGAGAGTTCCCCACATTCCCCCTGTGAGGGTCTTCCATCTGAGGCAGCTTTGACCCCAA
GGCCAGAAGGGAAGGTTTCTAGCCGCTTGGCACTTGGCAGTCTGAGGAGCTATAATGGAC
GGGGATGGGGGTCCCCAGGACGGCCTAAGAAGAAGCACACAGGCATGGCCAGCATTGACA
GCAGTGCCCTGAAACAACATCGGATAGTTCCCCCACCTTAAGCCGGAGACCACTTCGAG
GGGGCTGGGCCCCCACCTCCTGGGGTCGAGGTGAGGACAGTGACAGCATTAGCAGCTCTT
CTTTCGACTCCCTGGGCTCCTCATCTCCAGTGGAAGTCGCCGGGCCAGTGCCAGTGGAG
GAGCCCGGGCGAAGACTGTTGAAGTTGGCAGGTACAAGGGCCGCCGCCCGAGAGTCATG
CCCCTCATGTACCCAATCAGCCATCAGAGGCAGCTGCACACTTCTACTTCGAGCTGGCGA
AGACAGTGCTGATCAAGGCAGGGGGCAACAGCAGCACTTCCATTTTACACATCCATCTT
CCTCAGGGGGCCACCAGGGTCTCACCGCAACCTGCACCTTTGCGCCTTCGAGATTGGGC
TTTATGCCCTTGGCCTGCACAACCTTGTCTTCTCCCACTGGCTCTCACGTACTTATTCTT
CCCACGTTTCTGGATTACAGGCCAGGCCATGGAGATAGGCAGCGCAGCCCTGACTATAC
TGGTAGAATGCTGGGATGGGCACCTGACACCCCTGAGGTTGCATCCCTGGCTGACAGGG
CATCACGGGCAAGAGACTCCAATATGGTGAGGGCGGCAGCAGAGCTGGCCCTGAGCTGCC
TGCCTCACGCCCATGCATTGAACCTAATGAGATCCAGCGGGCCCTGGTGAGTGCAAGG
AACAGGACAACCTGATGTTGGAGAAGGCCTGCATGGCAGTGGAAGAGGCAGCTAAGGGTG
GGGGCGTGACCTGAAGTGTGTTTGGAGTTGCTCACCAGTGGTTCTGGCTGTATGAGC
AAACTGCAGGTGGCTCATCCACAGCCCGTGAAGGGGCTACAAGCTGTAGTGCCAGTGGGA
TCAGGGCAGGTGGGGAAGCTGGGCGGGGTATGCCTGAGGGTAGAGGGGGCCAGGGACTG
AGCCGGTTACAGTGGCAGCGGCAGCAGTGACAGCAGCAGCCACAGTGGTGCCCGTCATAT
CGGTGGGGTCTAGTTTATACCCGGGTCCAGGACTGGGGCATGGCCACTCCCCTGGCCTGC
ACCCCTACACTGCTCTACAGCCCCACCTGCCCTGTAGCCCTCAGTATCTCACTCACCCAG
CTCACCTGCCCCACCCCATGCCTCACATGCCCCGGCCTGCCGTCTTCCCTGTGCCAGCT

FIGURE 1 (CONT'D)

CTGCATACCCACAGGGTGTGCATCCTGCATTCTAGGGGCTCAGTACCCTTATTAGTGA
 CTCCTCCCTCACTTGCTGCCACTGCTGTGTCTTTCCCGTTCCTTCCATGGCACCCATCA
 CAGTACATCCCTACCACACAGAGCCAGGGCTTCCACTGCCCACCAGTGTGGCCTGTGAGT
 TGTGGGGCCAGGGAACAGTGAGCAGTGTCCATCCAGCATCCACGTTTCCAGCCATCCAAG
 GTGCCTCACTGCCTGCCCTGACCACACAGCCCAGCCCTCTGGTGAGCGGAGGTTTTCCAC
 CGCCCGAGGAGGAGACACACAGTCAGCCAGTCAATCCCCACAGCCTGCACCACCTGCATG
 CTGCCTACCGTGTGGAATGCTGGCACTGGAGATGCTGGGTGCGCGGGCACACAACGATC
 ACCCCAACAACCTTCTCCGCTCCCCCCCCCTACACTGATGATGTCAAATGGTTGCTGGGGC
 TGGCAGCAAAGCTGGGAGTGAACACGTGCACCAGTTCTGTGTGGGGGAGCCAAGGGGG
 TGCTGAGCCCGTTTGTGCTGCAGGAGATCGTCATGGAGACGCTGCAGCGGCTGAGTCCCG
 CTCATGCCCAACAACCTGCGTGCCCCGGCCTTCCACCAACTGGTGCAGCGCTGCCAGC
 AGGCATACATGCAGTACATCCACCACCGCTTGATTACCTGACTCCTGCGGACTACGACG
 ACTTTGTGAATGCGATCCGGAGTGCCCGCAGCGCCTTCTGCCTGACGCCCATGGGCATGA
 TGCAGTTCAACGACATCCTACAGAACCTCAAGCGCAGCAAACAGACCAAGGAGCTGTGGC
 AGCGGGTCTCACTCGAGATGGCCACCTTCTCCCCCTGAGTCTTTACCCCTTAGGGTCTTA
 TACAGGGACCCAGGCCTGTGGCTATGGGGGCCCCCTCACACAGGGGGAGTGAACTTGGCT
 GGACAGATCATCCTCACTCAGTTCCCTGGTAGCACAGACTGACAGCTGCTCTTGGGCTAT
 AGCTTGGGGCCAAGATGTCTCACACCCTAGAAGCCTAGGGCTGGGGGAGACAGCCCTGTC
 TGGGAGGGGGCGTTGGGTGGCCTCTGGTATTTATTTGGCATTATATAAATATATAAACTCC
 TTTTTTACTCT

Gene 130. >ENST00000325890 cDNA sequence

GGGGCTCAGTACCCTTATTAGTGAAGTCTCCCTCACTTGCTGCCACTGCTGTGTCTTTC
 CCCGTTCTTCCATGGCACCCATCACAGTACATCCCTACCACACAGAGCCAGGGCTTCCA
 CTGCCCACCAGTGTGGCCTTGAGCAGTGTCCATCCAGCATCCACGTTTCCAGCCATCCAA
 GGTGCCTCACTGCCTGCCCTGACCACACAGCCCAGCCCTCTGGTGAGCGGAGGTTTTCCA
 CCGCCCCAGGAGGAGACACACAGTCAGCCAGTCAATCCCCACAGCCTGCACCACCTGCAT
 GCTGCCTACCGTGTGGAATGCTGGCACTGGAGATGCTGGGTGCGCGGGCACACAACGAT
 CACCCCAACAACCTTCTCCCGCCCCCTACACTGATGATGTCAAATGGTTGCTGGGGCTGG
 CAGCAAAGCTGGGAGATCGTCATGGAGACGCTGCAGCGGCTGAGTCCCGCTCATGCCAC
 AACCACCTGCGTGCCCCGGCCTTCCACCAACTGGTGCAGCGCTGCCAGCAGGCATACATG
 CAGTACATCCACCACCGCTTGATTACCTGACTCCTGCGGACTACGACGACTTTGTGAAT
 GCGATCCGGAGTGCCCGCAGCGCCTTCTGCCTGACGCCCATGGGCATGATGCAGTTCAAC
 GACATCCTACAGAACCTCAAGCGCAGCAAACAGACCAAGGAGCTGTGGCAGCGGGTCTCA
 CTCGAGATGGCCACCTTCTCCCCCTGAGTCTTTACCCCTTAGGGTCTTATACAGGGACCC
 AGGCCTGTGGCTATGGGGGCCCCCTCACACAGGGGGAGTGAACTTGGCTGGACAGATCAT
 CCTCACTCAGTTCCCTGGTAGCACAGACTGACAGCTGCTCTTGGGCTATAGCTTGGGGCC
 AAGATGTCTCACACCCTAGAAGCCTAGGGCTGGGGGAGACAGCCCTGTCTGGGAGGGGGC
 GTTGGGTGGCCTCTGGTATTTATTTGGCATTATATAAATATATAAACTCCTTTTTTACTCT

Gene 131. >ENST00000330673 cDNA sequence

GGGGTGGGCGGGCTGGCCCATGGCTGAGACCTCTCTCCAGAGCTGGGGGGAGAGGACAA
 AGCCACGCCTTGCCCCAGCATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTC
 TTGCAGCCGTGTGGACGAAGTTTGGCCCAACCTTTTTCATAGGAGATGCGGCCACGGCAA
 CAACCGCTTTGAGCTGTGGAAGCTGGGCATCACCCACGTGCTGAACGCCGCCCAAGGG
 CCTCTACTGTGAGGGCGGCCCTGACTTCTACGGCAGCAGTGTGAGCTACCTGGGGGTGCC
 AGCCACGACCTCCCTGATTTTACATCAGTGCCTACTTCTCCTCTGCGGCTGACTTCAT
 CCACCGTGCCCTCAACACGCCTGGGGGCGCGTGCTGGTACACTGTGCCATGGGGGTAAG
 CCGCTCTGCCACACTTGTCTGGCCTTCTCATGATCTGTGAGAACATGACGCTGGTAGA
 GGCCATCCAGACGGTGAGGCCACCGCAATATCTGCCCTAACTCAGGCTTCTCCGGCA
 GCTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGGTTCTGATCTGGCAGGCA
 GCCAGGATCCCTGACCTTGGCCCAACCCACAGCCTGGCCCTGGGAACAGCAGGCTCT
 GCTGTTTCTAGTGACCTTGAGATGTAAACAGCAAGTGGGGGCTGAGGCAGAGGCAGGGAT
 AGCTGGGTGGTGACCTCTTAGCGGGTGGATTTCCCTGACCCAATTACAGAGATTCTTTATG
 CAAAAGTGAGTTCAGTCCATCTCTATAATAAATATTTCATCGTC

Gene 132. >ENST00000308475 cDNA sequence

FIGURE 1 (CONT'D)

GCATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTCTTGCAGCCGTGTGGACG
AAGTTTGGCCCAACCTTTTCATAGGAGATGCAAACAGCATCAAGTGTGCGGAGACAGGCG
GCTGAAAGCCAGCAGCACGAACTGCCCGTCAGAGAAGTGACAGCCTGGGCCAGATACTC
CCACAGGATGGACTCACTGCAGAAGCAGGACCTCCGGAGGCCCAAGATCCATGGGGCAGT
CCAGGCATCTCCCTACCAGCCGCCACATTGGCTTCGCTGCAGCGCTTGCTGTGGGTCCG
TCAGGCTGCCCACTGAACCATATCGATGAGGTCTGGCCAGCCTCTTCTGGGAGATGC
GTACGCAGCCCGGGACAAGAGCAAGCTGATCCAGCTGGGAATCACCCACGTTGTGAATGC
CGCTGCAGGCAAGTTCAGGTGGACACAGGTGCCAAATTCTACCGTGGAATGTCCCTGGA
GTACTATGGCATCGAGGCGGACGACAACCCCTTCTTCGACCTCAGTGTCTACTTTCTGCC
TGTTGCTCGATACATCCGAGCTGCCCTCAGTGTTCCCAAGGCCGCGTGCTGGTACACTG
TGCCATGGGGGTAAGCCGCTCTGCCACACTTGTCTGGCCTTCTCATGATCTGTGAGAA
CATGACGCTGGTAGAGGCCATCCAGACGGTGCAGGCCACCGCAATATCTGCCCTAACTC
AGGCTTCTCCGGCAGCTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGGTT
CTGATCTGGCAGGCAGCCAGGATCCCTGACCCTTGGCCCAACCCACCAGCCTGGCCCTG
GGAACAGCAGGCTCTGCTGTTTCTAGTGACCCTGAGATGTAAACAGCAAGTGGGGGCTGA
GGCAGAGGCAGGGATAGCTGGGTGGTGACCTCTTAGCGGGTGGATTTCCCTGACCCAATT
CAGAGATTCTTTATGCAAAGTGAGTTCAGTCCATCTCTATAATAAAATATTATCATCGTC

Gene 133. >ENST00000302577 cDNA sequence

ATGGCAGCTGAAGAAATTAATGAGGACTATCCAGTAGAAATTACGATTATTTGTGAGCA
TTTGCGAATTCATTGATGCTGTGGATGAGATGCTGAAGAACATGATGTCTGTTTCTAGA
AATGAGTTGTTGCAGAAGTTGGACCCACTTGAACAAGCAAAAGTGGATTTGGTTTCTGCA
TACACATTAAATTCAATGTTTTGGGTTTATTTGGCAACTCAAGGAGTGAATCCTAAGGAA
CATCCAGTAAAGCAGGAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATA
ACAGACAAGAAAAAGGCTGGCAAGCTGGACAGAGGTGCAGCTTCAAGATTTGTAAGAAAT
GCCCTCTGGGAACCAAAACCGAAAAATACATCCAAAGTTGCCCATAAAGGAAAAAGTAAA
AGTTAA

Gene 134. >ENST00000256052 cDNA sequence

GAAGCGCGCTCCCGGGGAGGTGTTGCAGCCATGGCTACGGCAGCCGGCGCGACCTACTTT
CAGCGAGGCAGTCTGTTCTGGTTTACAGTCATCACCCCTCAGCTTTGGCTACTACACATGG
GTTGTCTTCTGGCCTCAGAGTATCCCTTATCAGAACCTTGGGCCCCCTGGGCCCCCTTCACT
CAGTACTTGGTGGACCACCATCACACCCTCCTGTGCAATGGGTATTGGCTTGCTGGCTG
ATTGATGTGGGAGAGTCTTGTATGCCATAGTATTGTGCAAGCATAAAGGCATCACAAGT
GGTCGGGCTCAGTACTCTGGTTTCTACAGACTTTCTTCTTTGGGATAGCGTCTCTCACC
ATCTTGATTGCTTACAAACGGAAGCGCCAAAAACAACTTGAAGTTGTCTGAAAGCTTGC
TCTACACTTTTACATTTCATCCTCACCCCTTTTTTTTTGTGGGGTAGAGGAGGTGCAGTAATT
TACTCAGTGATCTTTCTACTTTCTAGAACTGTCTTCAAAGCTCTTTAAGACCCCCCTCG
TTAGTCAGTTTTTTCTCTTATATGCTCTGGTTGAGCTTGAATAGACCAGTTGTTACTTAA
GAAAGAAACAGAGAAAGATTTTAGCTTTTCAATCCTATTTGGCAGAGGACTTCAGTACC
TTCTTACAGTCTTTGGCTGTGTTGGTACCCTCGTGTGCTCTGAGCTAAGCCACATACTAA
ACTGACTTTTTTGGTTTTGTATACCCTTGCTCCCGCCTTCTGATGAAAAACACCTTACCCTCA
CAACCACCATCTTTCTCTCTTTCCAAAGCTCTTTCCACCTTGCTGCACTAAGATAAAG
TGACACTTCCACTATATGTCAATTCCACACACATTTATTAGGTACCTGTGAGGTAGGATC
CTATCCTCTCAAACCTTCCATTTCTCATGCTACAGAGAAAGATAAGGAAGATGAGCAAGTG
CCTGGAATGGGGCAGGCTGAGCAGTCACACAGGCATAGAGGCACGCTGAGAACCTGGAGG
GGAGACTGCAGAGTGCCTTCCCTGATGCTGCAGCCGGAAGTGATCCTTCCCTCCACCTGG
CCCCTGGGACACTGTGCTCTGCAGTGTGCAGGGCCTGATGGCACTGCTAGATTGCTCCTT
CAGCTCAGGGCCACAGCTTAAACAGCTTTACCTTTCCCCTCAGCACCTGTCCCACTATCT
TGACACAGGTGCTCTAACCATGTTTATTGAAACAAAGGAGGAACTGATTTCACTTTCA
CTTGTTTCAATTATCATTCCAATTTTTATGTGAAAATGGCACAACCCATTTGGGGTACCCTC
ACCCCAAAATAAAAGCCCAAGTCTACCTTTGACTGGTACCACCTTTTTTGTGGTTTCGTT
GGTGAGAAACCTTTATCTTTTTCATACCTTTCTATTCTCAATCACTTCTCCAAAAGTGTG
TCTTTCCAGCTCTGATTTATTCAAAACACAAGCATTTCTGTTTAGAGATTCTAGCCCATG
GGTTATCTGGCTAGTTATTACCTCTCCTGTTCACTTAGTTATACTTTATTATTGCTCACA
GGCTGGGGAGGCAGAATGACTCTGTCAACCACTAGGAGCCATTAGGGCTTCTTCCCTGGAG

FIGURE 1 (CONT'D)

GACTGCCTGCTTGCTTTCTGGGGACACTAGCCCTCATTTCCCTTCTGTGGTACAGTGGGG
CAAATTATTTGTATTAAAGCAAACATTTATGGGAAACAACCCGCTCCCGAAAACGGAGCCC
CCAAGTAAAGCACAACCTTGAAAGATTATGAACTATGAATTGTCTCTGGTAGAGATAAAT
TTCTGCAAACATATCTCAGTCTTCCCTCTGTTTCTCTGGTGATTAAGAAGTTCCTTTTTG
GTAAGGAAAAGGATTTTTAAACCATAGAGTTAGGCATCATGGAAATTCAAACCAGATTTCT
TAATACCTGGTCTTCCCTCAAAGAGAAATAATAACAGTAATAGTGGTGCTGGGAACAATAT
GGCAGATTATTGAATGAAATTGATTAACCTTGAATAAAATGCTGTGAATTTTCTCTA

Gene 135. >ENST00000265447 cDNA sequence

ATGAGCTACCTGGCTATCCCCCGCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGT
GGTCCCTGGGGAGGTGCTGCCTACCTCCTCCGCCAGCATGCCCCCATCGGGCTGGAT
AACGTGGCCACCTATGCGGGGAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAAC
ATGTCTGGGACATTTGGAGGAGCCAACATGCCCAACCTGTACCCTGGGGCCCCCTGGGGCT
GGCTACCCACCAGTGCCCCCTGGCGGCTTTGGGCAGCCCCCTCTGCCAGCAGCCTGTT
CCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCTCCAGGATGCCCTCATAT
CCGCCATACCCAGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCCGACAGCAGCCC
CCAGGGGCCTACCTGGGCAGCCACCAGTGACCTACCTGGTCAGCCTCCAGTGCCACTC
CCTGGGCAGCAGCAGCCAGTGCCGAGCTACCCAGGATACCCGGGGTCTGGGACTGTCACC
CCCGCTGTGCCCCCAACCCAGTTTGAAGCCGAGGCACCATCACTGATGCTCCCGGCTTT
GACCCCTGCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTTCGGGACGGATGAG
CAGGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTT
TCCTTCAAGACGGCTTACGGCAAGGCGAGCTGCCGGGATTTGATCAAAGATCTGAAATCT
GAACTGTCAAGAACTTTGAGAAGACAATCTTGGCTCTGATGAAGACCCAGTCCTCTTT
GACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGATGAAGCCTGCCTGATT
GAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAAACAGAGCCTACAAAGCA
GAATTCAAAAGACCTTGAAGAGGCCATTGGAAGCGACACATCAGGGCACTTCCAGCGG
CTCCTCATCTCTCTCTCAGGGAAACCGTGATGAAAGCACAACCGTGACATGTCACTC
GCCCAGAGAGATGCCCAGGAGCTGTATGCCGGCCGGGGAGAACCGCTGGGAACAGACGAG
TCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGCCCACCTGGTAGCAGTTTTCAAT
GAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGGG
GACCTGGAGGAGGGCATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCCAGCCTTCTTT
GCGGAGAGGCTCAACAAGGCCATGAGGGGGGAGGAACAAAGGACCGGACCCTGATTGCG
ATCATGGTGTCTCGCAGCGAGACCGACCTCCTGGACATCAGATCAGAGTATAAGCGGATG
TACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGGGGATTACCGGAAGATT
CTGCTGAAGATCTGTGGTGGCAATGACTGA

Gene 136. >ENST00000312535 cDNA sequence

ATGTTCTCTGTTTCCATCATTCCCTGTCTTCTCCTGTCTGTGGTGACAGCTTCCTGCTCC
AAAACAAAAGCCTGTGCAGATACCCAGAAGACCTGCTCCATGATTACCTGTGGCATCCCC
GTCACCAATGGCACCCAGGCAGAGATGGGCGAGATAGACCCAAGGGGGAAAAGGGAGAG
CCAGGTCAAGGGCTCAGAGGTTTGCAGGGCCCTCCTGGGAAGATGGGGCCCCCAGGAAAC
ACAGGGACTTCTGGAATTCCAGGACCTAGGGGGCCAAAAGGAGATCGTGGGGACAATTCA
GGTCTGGCTTCCAGGGAACTCAGACTGCTTGCCTACTGTCTCCTGCGCTGGGCTCCAAACC
CAGCCAGCCTCACTCACCATTTGTGGTTTTCAGTGTAAGCCTTCTCCTTGGGGAAAATGGG
AAGAAGCTTTTTCGTGACCAATGGTGAGCGGATGCCTTTCTCAAAGTGAAGGCTCTGTGT
GCTGGGCTCCAGGCCACAGTGGCTGCCCCCAAGAATGCCGAGGAGAATAAGGCCATCCAG
GATGTGGCCAAAGACACTGCCTTCTGGGCATCAGATGAGGCAACTGAAGGCCAGTTC
ATGTACTTGACGGGCAGGAGGCTGACCTACAGCAACTGGAAGAAGGATGAGCCAAATGAC
CACGGCTCAGGGGAGGACTGCGTTATTCTCCTGAACAACGGGCTCTGGAATGGCATCTCC
TGCACCTCCTCCTTCATTGCCATCTGTGAGTTT

Gene 137. >ENST00000256035 cDNA sequence

AGTTTGCTTGGAGCTCCTGGGGCCTAACAAAAGAAACCTGCCATGCTGCTCTTCCTCCT
CTCTGCACTGGTCTGCTCACACAGCCCCTGGGCTACCTGGAAGCAGAAATGAAGACCTA
CTCCACAGAAACATGCCAGTGCTTGACCCCTGGTCATGTGTAGCTCAGTGGAGAGTGG
CCTGCCTGGTTCGCGATGGACGGGATGGGAGAGAGGGCCCTCGGGGCGAGAAGGGGGACCC
AGGTTTGCCAGGAGCTGCAGGGCAAGCAGGGATGCCTGGACAAGCTGGCCAGTTGGGCC

FIGURE 1 (CONT'D)

CAAAGGGGACAATGGCTCTGTTGGAGAACCTGGACCAAAGGGAGACACTGGGCCAAGTGG
ACCTCCAGGACCTCCCGGTGTGCTTGGTCCAGCTGGAAGAGAAGGTCCCTGGGGAAGCA
GGGGAACATAGGACCTCAGGGCAAGCCAGGCCCAAAGGAGAAGCTGGGCCCAAAGGAGA
AGTAGGTGCCCCAGGCATGCAGGGCTCGGCAGGGGCAAGAGGCCTCGCAGGCCCTAAGGG
AGAGCGAGGTGTCCCTGGTGAGCGTGGAGTCCCTGGAAACACAGGGGCAGCAGGGTCTGC
TGGAGCCATGGGTCCCCAGGGAAGTCCAGGTGCCAGGGGACCCCCGGGATTGAAGGGGGA
CAAAGGCATTCTCTGGAGACAAAGGAGCAAAGGGAGAAAGTGGGCTTCCAGATGTTGCTTC
TCTGAGGCAGCAGGTTGAGGCCTTACAGGGACAAGTACAGCACCTCCAGGCTGCTTTCTC
TCAGTATAAGAAAGTTGAGCTCTTCCCAAATGGCCAAAGTGTGCGGGAGAAGATTTTCAA
GACAGCAGGCTTTGTAAAACCATTTACGGAGGCACAGCTGCTGTGCACACAGGCTGGTGG
ACAGTTGGCCTCTCCACGCTCTGCCGCTGAGAATGCCGCTTGCAACAGCTGGTCGTAGC
TAAGAACGAGGCTGCTTTCTGAGCATGACTGATTCCAAGACAGAGGGCAAGTTCACCTA
CCCCACAGGAGAGTCCCTGGTCTATTCCAAGTGGGCCCCAGGGGAGCCCAACGATGATGG
CGGGTCAGAGGACTGTGTGGAGATCTTCACCAATGGCAAGTGAATGACAGGGCTTGTGG
AGAAAAGCGTCTTGTGGTCTGCGAGTTCTGAGCCAACTGGGGTGGGTGGGGCAGTGCTTG
GCCAGGAGTTTGGCCAGAAGTCAAGGCTTAGACCCTCATGCTGCCAATATCCTAATAAA
AAGGTGACCAT

Gene 138. >ENST00000320599 cDNA sequence

CTGGCAGACTACCTGATCAGCAGCGGCACCAGCTACGTGCCCCGAGGACGGGCTCACCGCG
CAGCAGCTCTTCACCAGCACCAACGGCCTCACCTACAATGACTTCCTGATTCTCCAGGA
TTCATAGACTTCATAGCTGATGATGAGGTGGACCTGACCTCAGCCCTGACCCACAAGCTG
AAGACGCCGCTGATCTCCTCCCCTGTGGACACTACAGAGGCTGACATGGCAATCGGGATG
GCTCTGATGGGAGGTATTGGTTTCATTACCCACAAGTGCACCCAGAGTTCGAGGCCAAT
GAGGTGCTGAAGGTCAAGAAGTTTGAACAGGGCTTCATCACGGACCCTGTGGTGCTGAGC
CCCTTGACACCGTGGGTGATTTGGAGGCCAAGATGCTGCATGGCTTCTCTGGTATCCCC
CTCACTGAGACGGGCACCATGGGCAGCAAGCTGGTGGGCATCATCACCTCCCGAGACGTC
GACTTTCTTGCTAAGAAGGAGCAGCCACCTTCATCAGTGAGGTGATGACGCCAAGGATG
GAACTGGTGGTGGCTTTGAAAGGTGTGACGTTGAAAGAGGCAAATGAGATCCTGCAGCGT
AACAAGAAAGGGAAGCTGCCTATCGTCAGTGATCGCGATGAGCTGGTGGCCATCATTGCC
CGCACTGACCTGAAGAAGAATCGAGACTACCTCTGGCCTCCAAGGATTCCCAAAACAG
CTGCTGTGCAGGGCAGCTGTGGGCACCCGTGAGGATGACGAATGCCACCTGGACCTGCTC
ACCCAGGCGGGTGTCAATGTTGTAGTCTTGGAATCATCCAAGGGAGCTCGGTGTATCAG
ATCACCATGGTGCATTACATCAAACAGAAAGTACCCCCACCTCCAGGTGATTGGGGGGAAC
GTGGTGACAGCAGCCCAGGCCAAGAACCTGATGGACGCTCGTGTGGACGGGCTGCATGTG
GGCATGGGCTACGGCTCCATCTGCATTACCCAGAAAGTATGGCCTGCGGTTGGCCCCAG
GGCACTGCTGTGTACAAGGTGGCCAAGTATGCCCAGTGCTTTGGTGTGCCCATCATAGTC
GATGGTGGCATCCAGACTGTGGGGCACGTGGTCAAGGCCCTGGCCCTTGGAGCCTCCACA
GTGATGATGGGCCTGCTGGCCACCACCGAGGCACCTGGTGAGTACTTCTTTCTTAGAA
AGGGTGCAGCTCAAGAAGTACCAGGGCATGGGCTCACTGGATGCCATGGAGAAGAGCAGC
AGCAGCCAGAAACGATACTTCAGCAAGGGGGATAAGGTGAAGATCGCACAGGGTGTCTCG
GGCTCCATCCAGGACAAAGGGTCCATTGAGAAGTTCTGTGCCCTACCTCATAGCGGGCATC
CAGCACAGCTGCCAGGATATCGGGGCCCCGAGCCTGTCTGTCTTTGGTCCATGATGTAC
TCAGGGGAGCTCAAGTTTGTAGAAGCAGACCATGTGCGCCAGATCAAGGGTGGTGTCCAT
GGCCTGCACTCGTATGAGAAGCAGCTGTGA

Gene 139. >ENST00000320511 cDNA sequence

TCTACCTACAGCGTCTCTGTCCACCATGCCCTCAGACTCAGAAAGCAGCAGCTCCCTCAGC
AGTGTGGGCACTACCGGGAAGGCGCCGTCCCCACCACCCCTCCTCACTGACCAGCAAGTG
AATGAGAAGGTGGAGAACCTCTCCATTGAGCTGCGGCTGATGACCCGGGAGAGAAACGAG
CTCCGCAAGCGCCTGGCCTTTGCTACGCATGGCACGGCCTTTGACAAGAGGGCCCTACCAC
AGGCTGAATCCTGACTATGAGAGGCTGAAGATCCAGTGCGTGCGAGCCATGTGCGACCTG
CAGAGCCTGCAGAACAGCACACCAACGCCTTGAAGAGGTGTGAGGAGGTGGCCAAGGAG
ACTGACTTCTACCACACACTCCACAGCCGGCTCCTGAGTGACCAGACTCGGCTGAAGGAT
GACGTGGACATGCTGAGGCGGGAGAATGGGCAGCTGCTGCGGGAGCGAAACCTGCTGCAG
CAGTCATGGGAGGACATGAAGCGGCTCCACGAGGAGGACCAGAAGGAGATCGGTGACCTC

FIGURE 1 (CONT'D)

CGTGCCAGCAGCAGCAGGTGTTGAAGCACAAACGGGTATCCGAGATTCTCAACAACTG
TATGACACGGCCATGGACAAGTTGGAGGTGGTCAAGAAGGACTATGACGCCCTTCGGAAG
AGGTACAGTGAGAAAGTCGCCATCCACAATGCAGACCTGAGCCGCTGGAGCAGCTGGGG
GAGGAGAACCAGCGGTTGCTGAAGCAGACAGAGATGCTGACCCAGCAGAGGGACACGGCC
ATCCAGCTGCAGCACCAAGTGCGCCCTCTCCCTGAGGAGGTTTGAGGCGATCCACCATGAG
CTGAACAAGGCCACGGCGCAGAACCAAGGACCTGCAGTGGGAGATGGAGCTGCTGCAGTCA
GAGCTGACCGAGCTGAGAACCAAGCAGGTGAAGACAGCAAAGGAGTCGGAGAAATACAGG
GAGGAGCGGGACGCTGTGTACAGCGAGTACAAGCTCATCATGAGTGAGCGTGACCAGGTC
ATCTCTGAGCTGGACAAGCTGCAGACCGAAGTGGAGCTGGCCGAGTCCAAGCTCAAGAGC
AGCACATCTGAGAAGAAGGCGGCCAATGAGGAGATGGAGGCGCTGCGGCAGATCAAAGAC
ACGGTGACAATGGATGCTGGGAGAGCCAACAAGGAGGTTGAAATCCTTCGAAAGCAGTGC
AAGGCTCTGTGCCAGGAGCTGAAGGAAGCCCTCCAGGAGGCGGATGTGGCCAAGTGCCGG
CGGGACTGGGCCCTTCAGGAGCGAGACAAGATTGTAGCAGAGCGTGACAGCATCCGGACA
CTGTGTGACAACCTGAGGCGGGAGCGGGACCGTGCGGTGAGCGAGCTGGCTGAGGCCCTG
CGCAGCCTGGATGACACCCGCAAGCAGAAGAATGATGTGAGCCGCGAGCTGAAGGAGCTC
AAGGAACAGATGGAATCCAGTTGGAAGGAGGCGCGGTTCCGACAGCTGATGGCCAC
AGCTCCACGACTCGGCCATTGACACGGATTCCATGGAGTGGGAAACGGAAGTTGTAGAG
TTCGAGAGGGAGACGGAGGATATTGACTTGAAGGCACTGGGGTTTGATATGGCAGAAGGT
GTGAATGAGCCTTGTTTCCCGGGGACTGTGGCATATTTGTCACTAAAGTGGACAAAGGA
AGCATTGCTGATGGCCGCTTAAGGGTCAATGACTGGCTGCTGAGAATCAACGATGTGGAC
CTCATCAACAAGGACAAGAAGCAGGCCATCAAGGCGCTCCTCAATGGGAGGGGGCCATC
AACATGGTTCGTGCGGCGGAGGAAGTCCCTGGGTGGGAAGGTGGTCAAGCCGCTGCACATC
AACCTCAGTGGACAGAAAGACAGTGGCATCAGTCTGGAGAATGGAGTGTATGCTGCCGCT
GTGCTGCCTGGAAGCCCTGCCGCTAAAGAAGGGTCCCTTGCTGTGGGAGACAGGATCGTT
GCGATCAATGGCATTGCACTGGACAACAAGTCTCTGAATGAATGTGAATCTCTGCTGCGC
AGCTGCCAGGACTCCCTGACCCTGTCCCTCCTGAAGGTATTCCCTCAGAGCTCCTCGTGG
AGTGGCCAGAACATTTTTGAAAATATCAAAGACTCTGATAAGATGCTGAGTTTTTCGAGCC
CATGGCCCCGGAGGTCCAGGCTCATAACAAACGGAACCTTGATACAGCACAACTCCACG
CAGACAGACATCTTCTACACGGACAGGCTGGAAGACAGGAAGGAGCCAGGCCCCCAGGA
GGCAGCAGCTCCTTTCTGCATAAGCCATTCCCTGGGGGACCCTTGACAGGTCTGCCCCCAG
GCCTGTCCCAGTGCCTCTGAGCGTAGCCTGAGCTCCTTCCGCTCAGATGCCTCTGGGGAC
CGTGGCTTTGGGCTGGTGGACGTGCGTGGCCGGCGGCCACTGCTGCCCTTTGAGACCGAG
GTGGGCCCCCTGTGGGGTTGGGGAGGCCTCCCTGGACAAGGCAGACTCTGAAGGCTCCAAC
AGCGGCGGGACCTGGCCCAAGGCCATGCTCAGCTCCACGGCAGTGCCTGAGAAGCTCTCT
GTTTATAAAAAGCCAAAGCAAAGAAAGTCCATCTTTGACCCTAACACTTTCAAACGCCCC
CAGACACCCCCCAAATAGACTACCTGCTTCCAGGTCCCTGGGCCTGCTCACTCTCCCCAG
CCCTCCAAGAGGGCGGGGCTCTGACACCCCCAAACCTCCAGAAAGGAGCGACTCCATT
AAGTTCCAGCACAGGCTGGAGACTAGCTCCGAGTCAGAAGCCACTCTGGTGGGCAGCTCC
CCATCCACTAGTCCCCCGAGCGCCCTGCCCCCTGACGTGGACCCCGGGGAGCCCATGCAC
GCATCACCCCTCGCAAGGCCAGGGTCCGCATTGCTTCCAGCTACTACCCTGAAGGAGAT
GGGACTCCTCCACCTGCCGGCCAAGAAATCCTGTGATGAGGACCTCACCTCCAGAAG
GTGGATGAGCTGGGGCAGAAGCGTCGCCGGCCAAATCTGCTCCAGTTTTTCGGCCGAAG
CTTGCTCCAGTAGTGATTCTGTCTCAGTTCCTGGAGGAACAGAAGTGTGTCCCGGCCAGT
GGAGAACTCTCCCCGGAGCTCCAGGAGTGGGCACCTTACTCGCTGGGCATTCCAGCCGG
CACAGCAACCCCCCGCTATACCCTAGCAGGCCGTCTGTGGGCACTGTTCCCCGGAGTTTG
ACCCCCAGCACCACTGTGAGCTCCATCCTGCGGAACCCCATCTACACTGTGCGCAGTCAC
AGGGTCGGCCCCCTGCAGCTCTCCACCTGCGGCCCGAGATGCTGGCCCCCAGGGTTTTGCAT
CCCAGTGTCCAGCACAGGGACGCCTGAGCCTGGACCTGAGCCACAGGACCTGCAGCGAC
TACTCCGAGATGAGAGCCACCCATGGGTCCAACCTCACTGCCCTCCAGCGCCCGCCTGGGT
TCTTCGAGTAACTTGCAAGTTCAGGCGGAACGCATTAAATCCCATCAACACCAAGATAT
CCGCGGAGTGTGCTGGGCTCCGAGAGAGGTTTCAAGTGTACATTCTGAATGCAGCACTCCT
CCACAGTCACCCCTGAACATCGACACCCCTGTCTCTTGTAGCCAGTCCAGACCTCAGCC
TCCACATTGCCCAGAATCGCTGTCAACCCCGCGTCCCTCGGGGAGCGGAGAAAGGACAGG
CCTTATGTGGAGGAGCCACGCCACGTGAAGGTGCAGAAGGGCTCAGAGCCGCTGGGCATC

FIGURE 1 (CONT'D)

TCCATCGTGAGTGGAGAGAAGGGCGGCATCTACGTCTCCAAGGTGACCGTGGGGAGCATC
GCTCACCAGGCTGGCCTCGAGTATGGGGATCAGTTACTGGAGTTCAACGGCATAAACCTG
CGGAGCGCCACGGAGCAGCAGGCGCGGCTCATCATCGGGCAGCAGTGTGATACCATCACC
ATCCTGGCCCCAGTACAACCCCCACGTGCACCAGCTCAGCAGCCACTCCCGGTCCAGCTCA
CACCTGGACCCTGCCGGTACCCACTCCACTCTCCAGGGCAGTGGCACCACCACCCCGGAG
CATCCATCTGTTCATCGACCCACTGATGGAGCAGGACGAGGGGCCTAGCACCCCCCAGCC
AAGCAGAGCAGCTCCAGGATTGCGGGAGATGCCAACAAGAAGACCCTGGAGCCACGCGTT
GTCTTCATCAAAAAGTCCCAGCTGGAGCTTGGGGTGCACTTGTGTGGTGGGAACCTGCAT
GGGGTGTGTTGTGGCCGAGGTGGAGGATGACAGTCCTGCCAAGGGTCTGACGGCCTCGTG
CCAGGGGACCTCATCCTGGAGTATGGCAGCCTGGACGTGCGGAACAAGACAGTGGAGGAA
GTCTATGTGGAGATGCTGAAGCCCAGGGATGGCGTCCGCTGAAGGTGCAGTACCGCCCT
GAGGAGTTCACGAAGGCCAAGGGCCTGCCTGGTGACAGCTTCTACATCAGGGCCCTGTAC
GACCGGCTGGCAGATGTGGAGCAAGAGTTGAGCTTTAAGAAGGACGACATCCTCTACGTG
GATGACACCTTACCCAGGGCAGCTTCGGGTCTGGATGGCTTGGCAGCTGGACGAGAAT
GCCCAGAAGATCCAGCGCGGGCAGATTCCCAGCAAATATGTGATGGACCAAGAATTCTCC
AGGAGGCTCAGCATGTCTGAAGTCAAAGATGACAATAGCGCCACAAAGACGCTGTGAGCG
GCTGCACGCCGGTCTTTTTTTCGGAGGAAACACAAGCACAAACGAGCGGGTCCAAGGAC
GGGAAAGACCTGCTCGCCTTGGATGCCTTTTCCAGTGACTCCATTCCACTCTTTGAAGGC
AAGTGGCTGAGCTCATTTTTCCAATTCCGTGAGCCTGGCCTATCAGCGGGTCCAGAAGGTG
GACTGCACCGCTCTGAGGCCTGTCTGATTCTGGGGCCTTTGCTGGACGTGGTGAAGGAG
ATGCTGGTGAATGAGGCTCCTGGCAAGTTCTGCAGATGTCCCCTTGAGGTGATGAAGGCC
TCCCAGCAGGCCATTGAGCGGGGTGTCAAAGATTGCCTGTTTGTGCTACTATAAGCGGAGA
AGCGGCCATTTGATGTGACCACTGTGGCGTCAATAAAGGAGATCACAGAAAAGAACCGA
CACTGCCTCCTGGACATTGCTCCGCACGCTATTGAGCGGCTCCACCACATGCACATCTAC
CCCATTGTCTCTTCATCCACTACAAGAGCGCCAAGCACATCAAGGAGCAGAGAGACCCC
ATCTACCTGAGGGACAAGGTGACTCAGAGGCATTCCAAAGAGCAGTTTGAGGCGGCGCAG
AAGCTTGAGCAGGAGTACAGCAGGTACTTCACAGGGGTATCCAGGGAGGAGCCCTGTCA
AGCATTTGCACTCAGATCTTGGCAATGGTCAATCAAGAACAAAATAAAGTCTGTGGATT
CCAGCCTGCCCGCTCTAGGAGAATGCTGTGCTGTGGATGACTGCAGCTGGCCGCCTGAGG
GGACACCAGACTCAGCTCTTTTCTAGCGACTGAAAGTAGAAGTCTGTCCGTCTATGAACA
TGCGGGGGAAGGATCCGGAACCAGGACCCAGAAGCACCTCCTTTGTAGACAGAGGGCCAC
GGCTGCGTGCGATCCAGGCCCAGGCCCACACACTCTGCCCGTGTACACGTGTGCTTTAA
CACAAAACAGATAACACTAAAGACGGGTTCCAGCACCCACCTTTCTTTAGCCAGCTGATCA
GAGATGCTGCAAAGAGAACCTTTCCGATCACTCGTTTACAAGCCTTTTCTAAGTATTTGG
TGTTTTATGTTTACTTGAACGGCTCCATGTTGCCGGTGCCAGCCCCTGTCCCCTCTGTC
AACCCCTGTGCTTTGGTGTGTTGTTTCTGTTCCCGTCTTCAGCAAAACGACCTTGGAACC
TCAATGGGGGCTGCTTTGCTTTGGGAGGTTCTTGTGGTGGGACCAGAGCTTTGACAAAC
CTCCTGCTCCTTGGTGGCACCTCTCCTGGAAGGACGTCAAACTCCAGGTGCTCAGACTG
CCTGTGGCAGCAGAACCAAGTGCCCTTTGGCATTCTTCTCCACAATGGGGAAGGTGACTTT
GGCATTCTTACAAACTCGTCTCTCGGCCTTTCTCTCCTGCCTTCCACAGCCTCTCGTTTC
TCCTCCATCTGTGCTTATTACTTGAGGACTGTGTCTGCTCCGTGAGAGCTGCGTGGGCAG
GGCTGCAGTGGGGTCCAGGTGGTGTTCAGCTGTGCTGATGCCTGCCATTGGGTCTCCTT
AGGCTCTGTAAGTCGTGACAGCCTTCATCAGTGCAATGTTTGCAGGGTAATTCTTAAACT
TTTTAGAGGGTGGCAGGTACATCAGTTCCTTTTGTATATGAAAACATTATGTTTCAGACA
TTGAATTGAGAGCTTTTAGGGGAAGCATAATGGTTATTGTCACTATCAACAGTCTAAAAA
GAAAAACTGAGGTCTTTTTAATCTTGATTACAGCACTCACGGCATGCACCCTACTCAGTG
TGGGTGTCTTCGTTTGGGGGCTTTTTTTTTTTTGCACCTCTGAGGCTAGATATGTCTGG
CTGAAGATTGTGATGTGTTTCTCCTTAAGCTATGCGTCTGTGTTAATAATAGGTACTGTAC
TGGGCTCTGTGTAAGTGTGTTGGGGTAGGACCTATATTTTAATACTGTTCTTAACATTT
CATTTTACTAGCGAGAAATCTTTGATTTCATTTTATTCTTTGTAATTCTAGACACTAGAT
TGTAAGTTTAGCCATAACTGATGTTTTTAAAAAGGGATATATTTTCTTGACAGTTGTTT
AAAAAAGAGACAAGTTTCAGTCCTCAATGCTGTCTTTGTTTTACAGGTACAAGTTTTCT
AGCTCAGACAAACTATGAAAACTGTAGACTATTCTCAAGGTATTAACCTGCAGACCCCTC
TGGGGTAGGGGCTGTTTTCTAAGTTACAGGCAGAGTGGGACTGAGATGGTACAGTGTGC

FIGURE 1 (CONT'D)

ACAGACAGGTACTGAGCTGACAGACTGGGATTTTCTGTACTAAAATGTTACTTTGTATCA
AAAGTTAAACAGGCTTTAGTACAACAAATAAAGGTCAATTTCTGT

Gene 140. >ENST00000298189 cDNA sequence

CCTAACTCAGGCCCCCTCGTCTGGCAGGCTCCAGGCGCCCTCTGCGGAGGTGTTGTGTG
TCCACCTCCCCTACTCCTGGCAGCTGCTCCTGTGGTGCCTGTTATGGCTGCCAGGTGGT
TGGGGGCACCCAGGCTGTGAGGGAGGCTGGTCCCAGGGCCTTCCTCTTCCACCACCACC
ACCACCGGCTGCCAGCTGCCCCCATTTGTGTCCCAAGGAATGCTGGGCCATGGCCACA
AGGGGCTCATGGAGAGAGCAGCCTGGCTTCCTCCCAGGCCAAGGCCCCGCCAGATGACTC
CTGTAACCCCAGGAGTGTCTATGAGAACTTCCGACTCTGGCAGCACTACAAGCCCCTGGC
CCGGAGGCACCTTCCCAGAGTCTTGACACCGAAGCGCTTTCGTGCTTCCTCATCCCAGT
TCTCCGATCGCTGGCCCGGCGGAAGCCCCACCATGACCCTGGAGGAGGGACTGTGGCGGGC
CATGCGGGAATGGCAGCACACGAGCAACTTTGACCGGATGATCTTCTACGAGATGGCGGA
AAAGTTCCTGGAGTTTGGAGGCTGAGGAGGAGATGCAGATTGAGAAATCGCAATGGATGAA
GGGGCCCCAGTGCCTGCCTCCTCCAGCCACACCGAGGCTTGAACCTCGAGGACCCCCGGC
CCCTGAGGTGGTCAAGCAGCCAGTGTACCTTCCCAGCAAGGCCGGCCCCAAGGCCCAGAC
TGCCTGCCTGCCACCACCCAGACCCCAGAGGCCAGTGACCAAGGCCCGCCGGCCACCACC
CCAGCCCCACCGGCGAGCAGAGACCAAGGCCCGCCTGCCACCACCCAGGCCCCAGAGACC
AGCAGAGACCAAGGTCCCTGAGGAGATCCCCCAGAAGTGGTGCAGGAGTATGTGGACAT
CATGGAGGAGCTGCTGGGGCCTTCCCTCGGGGCCACGGGGGAGCCCGAGAAACAACGGGA
AGAGGGCAAAGTGAAGCAGCCACAGGAAGAGGACTGGACGCCCCCAGACCCGGGCCTCCT
GAGCTACATTGACAAGCTGTGTTCCCAGAAAGACTTCGTACCAAGGTGGAGGCCGTAT
TCATCCCCAATTCTGGAAGAATTGCTTTCCCAGATCCACAGATGGATTTCTTGGCCCT
AAGCCAGGACCTGGAGCAGGAGGAAGGACTCACCTTGCCAGCTAGTGGAGAAGCGCCT
CCCACCTTGAAGGAGAAACAGCATTTCGAGGGCAGCCCCTAGTCGTGGCACAGCCCGGTT
GGACTCAAGTTCTTCTAAGTTTGCAGCTGGCCAAGGAGCAGAGAGAGACGTCCCTGACCC
CCAAGAAGGGGTTGGCATGGAAACCTGCCCCACCCAGACGACTGCCCGGGACTCTCAGGG
ACGAGGCAGAGCACACACTGGCATGGCCAGGTCCGAAGACTCTGTTGTGCTTTTGGGATG
TCAGGATTCCTTGGGCTGAGGGCTGCCCCGCCAACCTCTCCTCCCCAGGACCACAGACC
CACCTGCCCTGGCGTGGGTACCAAGGATGCCTTGGATCTCCTGGAGGGTCTCCTGTGAG
GGAGTCACATGGGCTGGCTCAGGGGTCAAGTGAGGAGGAGGAACCTCCCAGCCTGGCCTT
CCTCTTGGGTTCCCAGCACAAAGCTTCTGCCCTGGTGGCTACCCCAGAGCCCTGTCCCTGC
CTCGGGCCTTCTCAGCCCAGAAAAGTGGGGACCCAGGGAACTCATCAGTCCCCATCTGC
TGAGAGAAGAGGCCTCAACCTAGCACCTTCTCCTGCCAACAAGGCCAAGAAGCAACCTCT
CTTTGGAAGCCTGTCCCCTGCTGAAAAGACACCCACCGAGGGCCTGGGCTCAGGGTCTC
TGGGGAGCAATCCCTGACTTGGGGGCTGGGTGGCCCCCTCACAGTCTCAAAAGAGAAAGGG
TGACCCCTTGGTCTCCAGGAAGGAGAAGAAGCAGCATTGTAGCCAGTAGGGGCTTCTGAG
CAGGCTCTCTGGGGCCAATCCCCAAGGATGGGGCTCTGGCATCCGATGCCCAAAGCGGT
CAAAAGCTTCTTCTCCCCAGTGCTGATCTTGCTGGGCCTTAGCTTTGGAGGGTAGGGGA
GGGAGGGGAGGGAGAGGGTGGCTGAATGGGGAGGGCAGGAAGGGAGGGTCTGGGGGAAG
GGGCTGGGGAGTGGGGGTGGGAAGCAGTGTGTTGGGGGCCTCGTGTGTAAGTGTGAATAA
ATGTAGTTGTCTTGG

Gene 141. >ENST00000335456 cDNA sequence

CAGCTGCCCCTGCCCCCTCCCCCTCTGCAGAATGTCTGGGGTCCCTATGTTCCAGGAACCT
GTTTACTTTCAAATTTTCTTTTCACTTGGACTCAGGAGCATCTGGTGAGCCAGGTCACTCT
CTGGGTCTTACCCTTGGCTTTTCTTATTGCGGAACTGCCAGACGGCGGTGGTCACTGCC
CAGCCTGAGGGGATGGCTTCGAATGGAGCATACCCAGTGCTGGGACCGGGCGTGAATGCC
AACCCTGGCACCTCCCTGTCTGTGTTACGGCTCTGCCCTTACCACACCCGCTCCCGGC
CCAGCACACGGGCGCTCCTTGTGACTGCAGGGGCTCCTCCAGGCGGCCCTCTGGTGCTG
TCTACCTTCCCCAGCACACCTCTGGTGACAGAACAGGATGGCTGCGGCCCGAGTGGGGCT
GGGGCTTCAAACGTCTTTGTCCAGATGAGGACAGAGGTGGGGCCTGTGAAGGCCGCTCAG
GCGCAGACCTTGGTCTAACTCAGGCCCCCTCGTCTGGCAGGCTCCAGGCGCCCTCTGC
GGAGGTGTTGTGTGTCCACCTCCCCTACTCCTGGCAGCTGCTCCTGTGGTGCCTGTTATG
GCTGCCCAGGTGGTTGGGGGCACCCAGGCCTGTGAGGGAGGCTGGTCCCAGGGCCTTCCT
CTTCCACCACCACCACCACCGGCTGCCAGCTGCCCCCATTTGTGTCCCAAGGAATGCT

FIGURE 1 (CONT'D)

GGGCCATGGCCACAAGGGGCTCATGGAGAGAGCAGCCTGGCTTCTCTCCAGGCCAAGGCC
CCGCCAGATGACTCCTGTAAACCCAGGAGTGTCTATGAGAACTTCCGACTCTGGCAGCAC
TACAAGCCCCCTGGCCCGGAGGCACCTTCCCCAGAGTCCTGACACCGAAGCGCTTTCTGTGC
TTCTCATCCCAGTTCTCCGATCGCTGGCCCCGGCGGAAGCCACCATGACCCTGGAGGAG
GGACTGTGGCGGGCCATGCGGAATGGCAGCACACGAGCAACTTTGACCGGATGATCTTC
TACGAGATGGCGGAAAAGTTCTTGAGTTTGAGGCTGAGGAGGAGATGCAGATTTCAGAAA
TCGCAATGGATGAAGGGGCCCCAGTGCCTGCCTCCTCCAGCCACACCGAGGCTTGAACCT
CGAGGACCCCCGGCCCCCTGAGGTGGTCAAGCAGCCAGTGTACCTTCCCAGCAAGGCCGGC
CCCAAGGCCCAGACTGCCTGCCTGCCACCACCAGACCCAGAGGCCAGTGACCAAGGCC
CGCCGGCCACCACCCAGCCCCACCGGCGAGCAGAGACCAAGGCCCGCTGCCACCACC
AGGCCCCAGAGACCAGCAGAGACCAAGGTCCCTGAGGAGATCCCCCAGAAGTGGTGCAG
GAGTATGTGGACATCATGGAGGAGCTGCTGGGGCTTCCCTCGGGGCCACGGGGAGCCC
GAGAAACAACGGGAAGAGGGCAAAGTGAAGCAGCCACAGGAAGAGGACTGGACGCCCCCA
GACCCGGGCCTCCTGAGCTACATTGACAAGCTGTGTTCCAGAAAAGACTTCGTACCAAG
GTGGAGGCCCGTCATTCATCCCCAATTCTTGGAAGAATTGCTTTCCCAGATCCACAGATG
GATTTCTTGCCCTAAGCCAGGACCTGGAGCAGGAGGAAGGACTCACCTTGCCAGGGA
GCCCTTCAGATGCTCCAGGGACTGACAGATGCTGA

Gene 142. >ENST00000305740 cDNA sequence

GGGCTCCTCCAGGCGGCCCTCTGGTGCTGTCTACCTTCCCCAGCACACCTCTGGTGACAG
AACAGGATGGCTGCAGCCCCGAGTGGGGCGGGGCTTCCAACGTCTTTGTCCAGTAGAGGA
CAGAGGTGGGGCCTGTGAAGGCCGCTCAGGCGCAGACCTTGGTCTTAACCTCAGGCCCCCC
TCGTCTGGCAGGCTCCAGGCGCCCTCTGCGGAGGTGTGTGTGTCCACCTCCCCTACTCC
TGGCAGCTGCTCCTGTGGTGCCTGTTATGGCTGCCCAGGTGGTTGGGGGCACCCAGGCCT
GTGAGGGAGGCTGGTCCAGGGCCTTCTCTTCCACCACCACCACCACCGGCTGCCCAGC
TGCCCCCATTTGTGTCCCAAGGGAATGCTGGGCCATGGCCACAAGGGGCTCATGGAGAGA
GCAGCCTGGCTTCTCTCCAGGCCAAGGCCCCGCCAGATGACTCCTGTAACCCCAGGAGTG
TCTATGAGAACTTCCGACTCTGGCAGACTACAAGCCCTTGGCCCGAGGCACCTTCCCC
AGAGTCCTGACACCGAAGCGCTTTCGTGCTTCTCATGCCCCAGAGACCAGCAGAGACCA
AGGTCCCTGAGGAGATCCCCCAGAAGTGGTGCAGGAGTATGTGGACATCATGGAGGAGC
TGCTGGGGCCTTCCCTCGGGGCCACGGGGGAGCCCCGAGAAACAACGGGAAGAGGGCAAAG
TGAAGCAGCCACAGGAAGAGGACTGGACGCCCCCAGACCCGGGCCCTCCTGAGCTACATTG
ACAAGCTGTGTTCCAGAAAGACTTCGTACCAAGGTGGAGGCCGTCAATTCATCCCCAAT
TCCTGGAAGAATTGCTTTCCCCAGATCCACAGATGGATTCTTGGCCCTAAGCCAGGACC
TGGAGCAGGAGGAAGGACTCACCTTGCCAGCTAGTGGAGAAGCGCCTCCACCCCTTGA
AGGAGAAACAGCATTGAGGGCAGCCCCCTAGTCGTGGCACAGCCCGGTTGGACTCAAGTT
CTTCT

Gene 143. >ENST00000286628 cDNA sequence

[illegible]

FIGURE 1 (CONT'D)

GAATGTGTCTATTTACTCATGGTCACAATGTCCACCGTTGGTTATGGGGATGTTTATGCA
 AAAACCACACTTGGGCGCCTCTTCATGGTCTTCTTCATCCTCGGGGGACTGGCCATGTTT
 GCCAGCTACGTCCCTGAAATCATAGAGTTAATAGGAAACCGCAAGAAATACGGGGGCTCC
 TATAGTGCGGTTAGTGGAAGAAAGCACATTGTGGTCTGCGGACACATCACTCTGGAGAGT
 GTTTTCCAACCTTCTGAAGGACTTTCTGCACAAGGACCGGGATGACGTCAATGTGGAGATC
 GTTTTTCTTCACAACATCTCCCCAACCTGGAGCTTGAAGCTCTGTTCAAACGACATTTT
 ACTCAGGTGGAATTTTATCAGGGTTCCGTCTCAATCCACATGATCTTGCAAGAGTCAAG
 ATAGAGTCAGCAGATGCATGCCTGATCCTTGCCAACAAGTACTGCGCTGACCCGGATGCG
 GAGGATGCCTCGAATATCATGAGAGTAATCTCCATAAAGAACTACCATCCGAAGATAAGA
 ATCATCACTCAAATGCTGCAGTATCACAACAAGGCCATCTGCTAAACATCCCGAGCTGG
 AATTGGAAGAAGGTGATGACGCAATCTGCCTCGCAGAGTTGAAGTTGGGCTTCATAGCC
 CAGAGCTGCCTGGCTCAAGGCCTCTCCACCATGCTTGCCAACCTCTTCTCCATGAGGTCA
 TTCATAAAGATTGAGGAAGACACATGGCAGAAATACTACTTGGAAGGAGTCTCAAATGAA
 ATGTACACAGAATATCTCTCCAGTGCCTTCGTGGGTCTGTCTTCCCTACTGTTTGTGAG
 CTGTGTTTTGTGAAGCTCAAGCTCCTAATGATAGCCATTGAGTACAAGTCTGCCAACCGA
 GAGAGCCGTATATTAATTAATCCTGGAAGCCATCTTAAGATCCAAGAAGGTACTTTAGGA
 TTTTTCATCGCAAGTGATGCCAAAGAAGTTAAAGGGCATTTTTTTTACTGCAAGGCCTGT
 CATGATGACATCACAGATCCCAAAGAATAAAAAAATGTGGCTGCAACGGCTTGAAGAT
 GAGCAGCCGTCAACACTATCACCAAAAAAAGCAACGGAATGGAGGCATGCGGAACTCA
 CCCAACACCTCGCCTAAGCTGATGAGGCATGACCCCTTGTTAATTCTGGCAATGATCAG
 ATTGACAACATGGACTCCAATGTGAAGAAGTACGACTCTACTGGGATGTTTCACTGGTGT
 GCACCCAAGGAGATAGAGAAAGTCATCCTGACTCGAAGTGAAGCTGCCATGACCGTCCTG
 AGTGGCCATGTCTGGTCTGCATCTTTGGCGACGTGAGCTCAGCCCTGATCGGCCTCCGG
 AACCTGGTGATGCCGCTCCGTGCCAGCAACTTTTCATTACCATGAGCTCAAGCACATTGTG
 TTTGTGGGCTCTATTGAGTACCTCAAGCGGGAATGGGAGACGCTTCATAACTTCCCCAAA
 GTGTCCATATTGCCTGGTACGCCATTAAAGTCGGGCTGATTTAAGGGCTGTCAACATCAAC
 CTCTGTGACATGTGCGTTATCCTGTGAGCCAATCAGAATAATATTGATGATACTTCGCTG
 CAGGACAAGGAATGCATCTTGGCGTCACTCAACATCAAATCTATGCAGTTTGATGACAGC
 ATCGGAGTCTTGCGAGGCTAATTCCTCAAGGGTTACACCTCCAGGAATGGATAGATCCTCT
 CCAGATAACAGCCCAGTGCACGGGATGTTACGTCAACCATCCATCACAACCTGGGGTCAAC
 ATCCCCATCATCACTGAACTAGTGAACGATACTAATGTTTCAGTTTTTGGACCAAGACGAT
 GATGATGACCCCTGATACAGAACTGTACCTCACGCAGCCCTTTGCCTGTGGGACAGCATTT
 GCCGTGAGTGTCTGACTCACTCATGAGCGCGACGTACTTCAATGACAATATCCTCACC
 CTGATACGGACCCCTGGTGACCGGAGGAGCCACGCCGAGCTGGAGGCTCTGATTGCTGAG
 GAAAACGCCCTTAGAGGTGGCTACAGCACCCCGCAGACACTGGCCAATAGGGACCGCTGC
 CGCGTGGCCCAGTTAGCTCTGCTCGATGGGCCATTTGCGGACTTAGGGGATGGTGGTTGT
 TATGGTGATCTGTTCTGCAAAGCTCTGAAAACATATAATATGCTTTGTTTTGGAATTTAC
 CGGCTGAGAGATGCTCACCTCAGCACCCCCAGTCAGTGACAAAGAGGTATGTCATCACC
 AACCCGCCCTATGAGTTTGAGCTCGTGCCGACGGACCTGATCTTCTGCTTAATGCAGTTT
 GACCACAATGCCGGCCAGTCCCGGGCCAGCCTGTCCCATTCCTCCCACTCGTTCGAGTCC
 TCCAGCAAGAAGAGCTCCTCTGTTCACTCCATCCCATCCACAGCAAACCGACAGAACCGG
 CCCAAGTCCAGGGAGTCCCGGGACAAACAGAAGTACGTGCAGGAAGAGCGGCTTTGA

Gene 144. >ENST00000311182 cDNA sequence

GCGGAGGGGTGGAGGTTTGTCTCCGCTGTTTCATCTCTATGGCTGTCAGAGGTGGGCGG
 CTTTGACCGAGAGGCTGCTGGAGCTCGTGTTTGGACGCGATGTTTCGTCTGAACTCACTT
 TCTGCTTTGGCAGAACTGGCTGTGGGTTCTCGATGGTACCATGGAGGATCACAGCCCATC
 CAGATCCGGCGAAGACTAATGATGGTGGCTTTCTGAGGAGCATCTGCAGTAACTGCAAGT
 ACTGGTCTTTTGTGGAAGAGGGCCCATGCAGAATCTCCACCATGTGTAGACAACCTAAAA
 AGTGACATCGGTGATAAAGGGAAGAATAAAGATGAAGGGGATGTTTGTAACCATGAGAAA
 AAGACTGCAGATCTTGCCCTCACCCAGAAGAGAAAAAGAAGAAACGTTCTGGATTGAGA
 GACAGAAAAGTGATGGAATATGAGAATAGGATTGAGCCTACTCCACGCCAGACAAAATC
 TTCCGATATTTTGCCACCTTGAAAGTCATCAGTGAGCCTGGTGAAGCAGAAGTGTATTATG
 ACACCAGAAGATTTTGTGCGATCCATAACACCCAATGAAAAACAACCAGAACACTTGGGT
 CTGGATCAATATATAATAAAACGCTTTGATGGAAAGAAAATTTCCAGGAACGAGAAAAA

FIGURE 1 (CONT'D)

TTTGCTGATGAAGGCAGTATATTTTACACCCTTGGAGAATGTGGGCTCATATCCTTTTCA
 GACTACATTTTCTCACAACCTGTTCTTTCCACTCCTCAGAGAAATTTTGAAATTGCCTTC
 AAGATGTTTGAATTTGAATGGAGATGGAGAAGTAGATATGGAAGAATTTGAACAGGCAAGT
 TGTCTGGAGACATCATTGCTCCCAAACAGTATGGGTATGCGCCACAGAGATCGTCCA
 ACTACTGGCAACACCCTCAAGTCTGGCTTGTGTTGAGCCCTCACAACCTACTTTTTTGGGA
 GCTGATCTGAAGGGAAAGCTGACAATCAAAAACCTTCTCGAATTTGAGCGTAAACTGCAG
 CATGATGTTCTGAAGCTTGAGTTTGAACGCCATGACCCTGTGGATGGGAGAATTACTGAG
 AGGCAGTTTGGTGGCATGCTACTTGCCTACAGTGGGGTGCAGTCCAAGAAGCTGACCGCC
 ATGCAGAGGCAGCTCAAGAAGCACTTCAAAGAAGGAAAGGGTCTGACATTTGAGGAGGTG
 GAGAACTTCTTTACTTTCTTAAAGAACATTAATGATGTGGACACTGCATTGAGTTTTTAC
 CATATGGCTGGAGCATCTCTTGATAAAGTGACCATGCAGCAGGTGGCCAGGACAGTGGCT
 AAAGTGGAGCTCTCAGACCACGTGTGTGATGTGGTGTGTTGCACTCTTTGACTGTGATGGC
 AATGGCGAACTGAGCAATAAGGAATTTGTTTCCATCATGAAGCAACGGCTGATGAGAGGC
 CTGGAAAAGCCCAAAGACATGGGTTTTCACTCGCCTCATGCAGGCCATGTGGAAATGTGCA
 CAGGAAACTGCCTGGGACTTCGCTTTACCCAAACAGTAACCCACACTGCAAGAGGGGAC
 CCTCCACCCCCAGTACCCTGGACCCCTCCGCAGAGTCTCGGCAGAGCCCTTTGTGCTG
 CTGCTTCTGGAAGTAGTCCCCCTTCTCCCGGGATGACCTCAGGACTCTGTGCGTTTTCCC
 CTCTTTACCTTCCCCGTCCCCGTGTTCTGCTGGGCTCTGATTCTGCCCAATGAGTATCC
 CCATAGGTTCTCAAAAACATGAACAAGTCTGTAAAGCTCAGACATTTGTGAGCCTCAACA
 GCACCACCCATTCAAGCATCCTGTGGATAAAGAATTGAGGGAACCATCCACACACCTGCC
 AACCTGGGAAGCATCCAGTTCTCAAATCGTTTTTGGCTATGGATTATATACTAACAAGAAC
 ATTCCTTGACTTCCCTCCTGCTGGTGTGTTTTAAAGCCACAAGTAGGGAAGATATCTGGCAG
 GCAGAAAGAAGTCTGTGATGATAAACAATGATGAGGATGACCTAGGCACCTACGCTAGT
 GTGAGAAGCCTGCGCCCCAGGAAGGATCTGTGTTAGTCCCTGGGATGGCTCCAAGGCCTG
 CTCTAGGAAGGCAGCATGCTCAGTGGGAACACAGCAAGATTGAGAATTTAAAGTAGTTGC
 TTCATGGCTCTGTGCACTCCCTTTTCTTCTCGCAGCCTCCCTAAGATGACTCCAGTGTG
 ACCCTGTGCTTAGTGAGCAATAGTGATTGAGCTCATGTTCCCTGCAAGTGCCATTTCCCTC
 TCCAGGATGGGCCTCTAAAGCTGAGGCCTGGCTCAGAGCCTGTTTGCCCTCTGTCTTAAA
 CAATTGTAAATATCACTTAAATTATAACCATTTGCAATAAACATCCCCAAAGTT

Gene 145. >ENST00000277916 cDNA sequence

GGAGACCGGGTTGGGCTGTGACGCTGCTGCTGGGGTCAAGTGTATACCCAGGCTATCC
 CCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCAGGTGAGGAGTCATCTTTTCC
 CCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCTCAATGGGAGGAGGTGCCTACCC
 ACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCTGCGCCTGGAGGTTATCC
 AGCCCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGGAGCTCCATCCTATCCCGGAGT
 TCCTCCAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACA
 GCCACCTTCACAGTCTTATGGAGGTGGTCCAGCACAGGTTCCACTACCTGGTGGCTTTCC
 TGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACCTACTTACCCTAGTCAGATCAA
 TACAGATTCTTTTTCTTCTATCCTGTTTTCTCTCCTGTTTCTTTGGATTATAGCAGTGA
 ACCTGCCACAGTGACTCAGGTCACTCAAGGAACTATCCGACCAGCTGCCAACTTCGATGC
 TATAAGAGATGCAGAAATTCTTCGTAAGGCAATGAAGGGTTTTGGGACAGATGAGCAGGC
 AATTGTGGATGTGGTGGCCAACCGTTCCAATGATCAGAGGCAAAAATTAAGCAGCATT
 TAAGACCTCCTATGGCAAGGATTTAATCAAAGATCTCAAATCAGAGTTAAGTGGAAATAT
 GGAAGAACTGATCCTGGCCCTCTTCATGCCTCCTACGTATTACGATGCCTGGAGCTTACG
 GAAAGCAATGCAGGGAGCAGGAACTCAGGAACGTGTATTGATTGAGATTTTGTGCACAAG
 AACAAATCAGGAAATCCGAGAAATTGTGAGATGTTATCAGTCAGAATTTGGACGAGACCT
 TGAAAAGGACATTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCATGTG
 CCAGGGAAATCGTGATGAGAACCAGAGTATAAACACCAAATGGCTCAGGAAGATGCTCA
 GCGTCTCTATCAAGCTGGTGAGGGGAGACTAGGGACCGATGAATCTTGCTTTAACATGAT
 CCTTGCCACAAGAAGCTTTCTCAGCTGAGAGCTACCATGGAGGCTTATTCTAGGATGGC
 TAATCGAGACTTGTTAAGCAGTGTGAGCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTT
 GAAGACCATCTTGCAGTGTGCCCTGAACCGCCCTGCCTTCTTTGCTGAGAGGCTCTACTA
 TGCTATGAAAGGTGCTGGCACAGATGACTCCACCCTGGTCCGGATTGTGGTCACTCGAAG
 TGAGATTGACCTTGACAAATAAAACAGATGTTGCTCAGATGTATCAGAAGACTCTGGG

FIGURE 1 (CONT'D)

CACAATGATTGCAGGTGACACGAGTGGAGATTACCGAAGACTTCTTCTGGCTATTGTGGG
CCAGTAGGAGGGATTTTTTTTTTTTTTAATGAAAAAAATTTCTATTATAGCTTATCCTT
CAGAGCAATGACCTGCATGCAGCAATATCAAACATCAGCTAACCGAAAGAGCTTTCTGTC
AAGGACCGTATCAGGGTAATGTGCTTGGTTTGACATGTTGTTATTGCCTTAATTCTAAT
TTTATTTTGTCTCTACATACAATCAATGTAAAGCCATATCACAATGATACAGTAATATT
GCAATGTTTGTAAACCTTCATTCTTACTAGTTTCATTCTAATCAAGATGTCAAATTGAAT
AAAAATCACAGCAATCTCTGATTCTGTGTAATAATATTGAATAATTTTTTAGAAGGTTAC
TGAAAGCTCTGCCTTCCGGAATCCCTCTAAGTCTGCTTGATAGAGTGGATAGTGTGTTAA
AACTGTGTACTTTAAAAAAAATTCAACCTTTACATCTAGAATAATTTGCATCTCATTTT
GCCTAAATTGGTTCTGTATTATATAACACTTTCCACATAGAAAATAGATTAGTATTACCT
GTGGCACCTTTTAAGAAAGGGTCAAATGTTTATATGCTTAAGATACATAGCCTACTTTTT
TTTCGCAGTTGTTTTT

Gene 146. >ENST00000260852 cDNA sequence

GGAGACCGGGTTGGGCTGTGACGCTGCTGCTGGGGTCAGAATGTCATACCCAGGCTATCC
CCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCAGGTGAGGAGTCATCTTTTCC
CCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCAATGGGAGGAGGTGCCTACCC
ACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCTGCGCCTGGAGGTTATCC
AGCCCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGGAGCTCCATCCTATCCCGGAGT
TCCTCCAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACA
GCCACCTTTCACAGTCTTATGGAGGTGGTCCAGCACAGGTTCCACTACCTGGTGGCTTTCC
TGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACCTACTTACCCTAGTCAGCCTGC
CACAGTGACTCAGGTCACTCAAGGAACTATCCGACCAGCTGCCAACTTCGATGCTATAAG
AGATGCAGAAATTTCTCGTAAGGCAATGAAGGGTTTTGGGACAGATGAGCAGGCAATTGT
GGATGTGGTGGCCAACCGTTCCAATGATCAGAGGCCAAAAATTAAAGCAGCATTTAAGAC
CTCCTATGGCAAGGATTTAATCAAAGATCTCAAATCAGAGTTAAGTGGAAATATGGAAGA
ACTGATCCTGGCCCTCTTCATGCCTCCTACGTATTACGATGCCTGGAGCTTACGGAAAGC
AATGCAGGGAGCAGGAACTCAGGAACGTGTATTGATTGAGATTTTGTGCACAAGAACAAA
TCAGGAAATCCGAGAAATTTGTGAGATGTTATCAGTCAGAATTTGGACGAGACCTTGAAAA
GGACATTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCATGTGCCAGGG
AAATCGTGATGAGAACCAGAGTATAAACCACCAAATGGCTCAGGAAGATGCTCAGCGTCT
CTATCAAGCTGGTGAGGGGAGACTAGGGACCGATGAATCTTGCTTTAACATGATCCTTGC
CACAAGAAGCTTTCTCAGCTGAGAGCTACCATGGAGGCTTATTCTAGGATGGCTAATCG
AGACTTGTTAAGCAGTGTGAGCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTTTGAAGAC
CATCTTGACAGTGTGCCCTGAACCGCCCTGCCTTCTTTGCTGAGAGGCTCTACTATGCTAT
GAAAGGTGCTGGCACAGATGACTCCACCCTGGTCCGGATTGTGGTCACTCGAAGTGAGAT
TGACCTTGTACAAATAAAACAGATGTTGCTCAGATGTATCAGAAGACTCTGGGCACAAT
GATTGCAGGTGACACGAGTGGAGATTACCGAAGACTTCTTCTGGCTATTGTGGGCCAGTA
GGAGGGATTTTTTTTTTTTTTAATGAAAAAAATTTCTATTATAGCTTATCCTTCAGAGC
AATGACCTGCATGCAGCAATATCAAACATCAGCTAACCGAAAGAGCTTTCTGTCAAGGAC
CGTATCAGGGTAATGTGCTTGGTTTGACATGTTGTTATTGCCTTAATTCTAATTTTATT
TTGTTCTCTACATACAATCAATGTAAAGCCATATCACAATGATACAGTAATATTGCAATG
TTTGTAAACCTTCATTCTTACTAGTTTCATTCTAATCAAGATGTCAAATTGAATAAAAAAT
CACAGCAATCTCTGATTCTGTGTAATAATATTGAATAATTTTTTAGAAGGTTACTGAAAG
CTCTGCCTTCCGGAATCCCTCTAAGTCTGCTTGATAGAGTGGATAGTGTGTTAAACTGT
GTACTTTAAAAAAAATTCAACCTTTACATCTAGAATAATTTGCATCTCATTTTGCCTAA
ATTGGTTCTGTATTATATAACACTTTCCACATAGAAAATAGATTAGTATTACCTGTGGCA
CCTTTTAAGAAAGGGTCAAATGTTTATATGCTTAAGATACATAGCCTACTTTTTTTTCGC
AGTTGTTTTT

Gene 147. >ENST00000319786 cDNA sequence

ATTGAACCTCTGCATTCCACAGGCAAGGTTTACCTAAAGCACCAGGGTGGACTGAGAAG
AATTCTCATATAGTTGGGAGCCATTGGATGCCCCAGAGGGTAAGCTGCAAGGCTCTAGG
TGTGACAACAGCAGTTGCAGCAAGCTCCCTCCACAAGAAGGAAGAGGCATTGCTCAAGAA
CAGCTGTTCCAAGAAAAGAAGGATCCTGCTAACCCCTCCCCGGTGATGCCTGGAATAGCC
ACCTCTGAGAGGGGTGATGAACACAGCCTAGGCTGTAGTCCTTCAAATTCATCAGCTCAG

FIGURE 1 (CONT'D)

CCCAGCCTTCCCCTGTATAGAACCTGCCACCCATAATGCCTGTTGCTTCTTCATTTGTG
 CTTCACTGTCTGATCCTGTGCAGAAAATAACCAATGCCTCCAAGGCCAAAGCCTCAAA
 ACTTCATTGACTTTAAAGTGGACAGAGGCAGTGAGGAGACCTATAGGCCAGAGTTTCCC
 AGCACAAGGGGCTTGTCCGTTCTCTGGCTGAGCAGTTCCAGAGGATGCAGGGTGTCTCC
 ATGAGGGATAGTACAGGTTTCAAGGATAGAAGTTTGTGAGGTAGTCTAAGGAAGAACTCT
 TCCCCCTTCTGATTCTAAGCCTCCTTTCTCACAGGGTCAAGAGAAAGGCCACTGGCCATGG
 GCAAAGCAACAATCCTCTCTGGAGGGTGGGGATAGACCACTTTCTGGGAAGAGTCCACT
 GAACATTCTTCTCTTGCCTTAAACTCTGGGCTGCCTAATGGTGAAACTTCTAGCGGAGGA
 CAGCCCAGGTTGGCAGAGCCAGACATATACCAAGAGAAGCTGTCCAAGTGAGAGATGTT
 AGGTCTAAGGATCTGGGCAGCAGTACTGACTTGGGGACTTCTTGCCTTTGGATTCTGG
 GTGAATATCAAGGTTCTGTGATTCTCAGCTTAAGCATGGGGCACCTAGGCCAGGAATG
 AAGTCTCCCCTCATGATTCCCATACGTGTGTAACCTATCCAGAGAGAAATCACATCCTT
 TTGCATCCACATTGGAACCAAGACACAGAGCAGGAGACCTCAGAATTGGAGTCTCTGTAT
 CAGGCCAGTCTTCAGGCTTCTCAAGCTGGCTGTTCTGGATGGGGGAGGAGGTTGCACTCAGCC
 TGGCACCCACTTAGCCAAACAGGCTCTGCAGATGGCATGGGGAGGAGGTTGCACTCAGCC
 CATGATCCTGGTCTCTCAAAGACTTCAACAGCAGAAATGGAGCATGGTCTCCATGAAGCC
 AGAACAGTGCGTACTTCTCAGGATTCTCAAAACGTGAGGAAGCCTTTGGAAACCGGGCAC
 CGTTGTTCCAGCTCCTCTTCCCTCCCTGTATCCATGACCTTCTGTGTTTCTCCTCGGT
 CCCCAACTCTACCTTCCCCAACACAGTTCTGTCCCCAGATGTCTGATGCCACCATG
 GCAGGGGAGCCCAATAGACTCCCAGGAACCTTCAAGGAGTGTCCAGCAGTTTCTGGCTATG
 TGTGACAGGGGTGAAACTTCCCAAGGGGCCAAGTACACAGGAAGGACTTTGAACTACCAG
 AGCCTCCCCCATCGCTCCAGAACAGACAACCTCTGGGCACCTGGTCAGAGACCAACCAG
 CATATTGGGACCAGATTCTGACTACTCCAGGGTGCAATCCTCAACTAACCTACACTGCC
 AACTACCAGAAAGAAGCAAGGGCCTTCAGGTTCTCTCACTCAGTCTGGAGTGATCTT
 TTCCATTACCCCTCCCACCTCCCATTGTTTCATCCTGTGTACCCACCATCTAGCAGTCTT
 CATGTACCCCTGAGGTGAGCTTGGAAATTCAGATCCTGTTCCAGGGTCCCGAACCCCTGGT
 CCTCGAAGAGTAGATATGCCCCAGATGATGACTGGAGGCCAAAGCAGTTATGCCTCCCAC
 TCTGGACACAGGAGAACAGTGGGAGAGGGGTTTCTGTTTGTCTATCAGATGCTCCCAGA
 AGAGAGCAGATCAGGGCTAGAGTCTCTGCAGCACAGTCAATGGTAAAGGTTATTCTTTTCC
 TTTCTGGAGCTACACCTTTCTTTGTAAACTGTACTGTGGGCCGGGCGCGGTGGCTCAC
 ACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTGAGGAGATTGA
 GACCATCCTGGCCAAACATGGTGAAACCCCGTCTCTACCAAAATACAAAAAATTAGCCAGG
 CGTGACGGTGCGTGCCTGTAGTCCCACTACTCGGAAGGCTGAGGCAGGAGAATTGCTTG
 AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACCACTGCACTCCAGCTTGGCAA
 TAGAGTGAGACTCCATCTCAAAAAACAAAAACAAACAAAAATAAACTACTGTGGC
 AGCGTTGGTACCCTGCATCACTGCCATGGTTGTGCTATTCTCATCTCAACATAGAATTGG
 TGGGTTCTCCTAAGGGTGTGAGGAACCTCTAAAAAGATGTGATTCTTTGGGAGGGGATAT
 TTGAAATTCCAACTTCCATTCCCCCTAGCAAAAGGAAGCAGCTGCTGTTTAAGGGTTTTA
 TCTGAGCCACTTTAAAGATGAATCCATGGTATTACTCTGGATACTAGCCATTCTTAGGA
 TTTTAAGGTCACATTTTATTCTGGATGCTTTATGTCCCCACCTCCACCTGAGCCCTCAT
 CCTCTGTTCCCTACTATACTCCCACTTCTACTCTTTGTTTTATCCACCTATCCCTATTA
 CCTGACCCTTTGTCTTCCCTGTCTCCCATCCTTGGGGGGACATGTAGCCCTGTGGTCATG
 GTTCTGATGACATCATCAGGGCAGCCCCCTGCCAGGTATTATGGCCTGTGAGCATTCC
 CTGTGCCCTCCAAACCTTAGGCCTAGAATGCGGAGCTGCCAACATAACATTACCCCTTTT
 GAACAGATGGAGTCAGGCACACTAACACAGCCTTCTGTCTCAATAACACAGCCATTATT
 GCCACTTGCTCAGTCGTCAATGTAAACCTCAGAGTCAGCTGAACTATTTTAGGCCAAAC
 ATACTGTTTTTGTAAAGTATTTTTCATTAATAAATCTATAAGACAGTTCTATTT

Gene 148. >ENST00000310715 cDNA sequence

AGCTCAGCGTCTCGCTCCCTGCTCCCGGCCCCAGAGGGTTATCGCGAGTCTTGGAATAAA
 CTTGCTCGTGCGATGGCCAAAAAGACCAAGAAAACAGAGGGACTTTTCCAGTTGGTGA
 TATGGAGCAAGTGCCATCAGCAGGCAGACTCGTGAGATCACCGTGACAGAGGGATATGA
 TTTGAAAGGTTTTAAAGGAGATACTCCAGTTACCTTTATTTCGAGCAGAATTCAATCAAGT
 GGTCTGGGAGACTCTGCAAAAATTACTGTTTCTCCAGAAGGAAGTGCAAAATACAACTT
 CACTAGCAGTTTTGAGTTTAATCCTGAAGGAGGAATCACTCAGATGACCTCGCTCACAA

FIGURE 1 (CONT'D)

ACCTGTGTTCTTAACTGTGACTGAAGTTTTACCAAAGGAAAAGAAACAGAAAGAAGAGAA
 GACCTTAATTCTTGGTCAGGCTGTGGTGGACCTTCTTCCCTTACTGGAAGGACAGAGTTC
 ATTTCAAACAACAGTTCATTGCACCCTGTGCAAGGCTCACCTTAGAAACTCCTAGATC
 AAGTGCTAAGCAGTGCAGTCTTGAAGTTAAAGTATTAGTGGCAGAGCCTTTACTGACCAC
 AGCCAGATCTCAGGGGGCAATCTACTGAAGGTACGTTGGAGGCTGCTTACTCTGTGCC
 TGAATCCTTCATTCCAACAGGTCTGGGCAGAACTACATGGTCGGTCTGCAAGTTCATC
 ACTTGGAGAGAAGGACTATCCCATTTTATTTAAGAATGGAAGTCTGAAGCTTGGAGGGGA
 AAGGGAACCTGTTCCCCGGCCCCAAAAGTGGCCAATTGCCAACATTCTGGCTCCAGGAGC
 TAATAACATTCTGATGCATTATTGTTGGTGGTCCCTATGAAGAAGAAGAAGGAGAAGT
 CAACCATCCTGAGGACAGCGAATTTAGGAATCAAGCAGAGTGCATAAAGAAAAGGATTAT
 TTGGGACTTGGAAAGTCGCTGCTACCTTGATCCTTCTGCAGTGGTCAGTTTTTCAGAAGCG
 AATTGCCGATTGCCGGCTTTGGCCTGTAGAGATCACAAGAGTTCCTCTGGTCACTATACC
 CAAAGGGAAAGCTGGCAAACTGAAAAGACTGATGAAGAAGCTCAGCTTTCGTTTCATGG
 TGTGGCTTATGTTAATATGGTCCATTGTTGTATCCAGGTGTGAAGAGAATTCTGGGGAGC
 TTTTCATGTTTACCCTTACCTAGACAGTGTAGTCCATGAAAAGACCAAATGTTTATTGAG
 CTTGTTCCGGGATATTGGCCATCACTTGATTATAATAATAAAATAGGAGGAATTAATTC
 TCTGCTGTCCAAACAAGCTGTTTCTAAGAATCTGAAAGAAGATAAAACAGTGAAAGAAAA
 GGATATAGATGGAAGGCCTAGGCCTGGGGATGTGCAGGCACCTAGTATAAAATCTCAGAG
 CTCAGATACTCCTTTGGAAGGTGAACCCCTCTAAGTCACAATCCTGAAGGACAGCAATA
 TGTAGAAGCAGGGACATACATTGTGTTGGAAATTGAGCTGGACAAAGCCTTGGTTCCAAA
 GCGAATGCCAGAGGAGCTAGCCAGAAGGGTCAAGGAAATGATTCTCCAAGGCCTCCTCT
 TACCCGTCTGGACAGGAGGAGCTCAGAAGGCAATGAGTGACTACCACATACAGATCAAGAA
 TATTTCTAGAGCCATTCTAGATGAATACTACAGAATGTTTGGAAAACAGGTGGCCAACT
 GGAGAGTGATATGGATAGTGAAACCTTGGAGGAGCAGAAGTGCCAGCTCAGCTATGAACT
 TAATTGCTCTGGAAAATACTTTGCTTTCAAAGAACAACTCAAGCATGCTGTGGTAAAGAT
 TGTGAGAGATAAATACTTGAAGACAACATCATTTTGAAAGCCAGGAGGAACTTCAGACATT
 TATCAGTGAGCTCTATGTGTTCTTAGTAGATCAGATGCATGTAGCCCTAAACCAGACCAT
 GCCAGATGATGTCCAAGGCACTGTTGCAACCATTTATACAAGCAGTGAAACAGCTTCAACT
 CTTTGCATTTGAAGCAGAAGTCAATGAGAACTTTGAGATGGCAGCAGCATATTATAAAGA
 GAGATTGGTCCGTGAGCCCCAGAATCTGGATCACTGGTTGGACTATGGTGCCTTCTGCCT
 CCTAACTGAAGACAACATCAAAGCACAAGAGTGTTTTTCAGAAAGCCCTTTCCCTCAACCA
 GAGTCATATCCACAGCTTGTTGCTGTGTGGTGTCTGGCTGTCTGTTGGAGAACTATGA
 GCAAGCAGAAATTTTCTTTGAGGATGCTACTTGCTTGGAAACCAACTAATGTTGTAGCCTG
 GACTTTACTTGGTTTGTACTATGAAATTCAAAACAATGATATTGGAATGGAAATGGCATT
 TCATGAGGCCTCCAAACAGCTTCAGGCACGGATGCTTCAGGCACAAGTAACAAAGCAAAA
 GAGCACTGGTGTAGAAGACACTGAGGAAAGAGGGAAGAGAGAATCTAGTTTAGGCCCTTG
 GGAATCACAAATGGTTCTGCAACAGCAATCAAGGTGGAAGCCCCAGCAGGACCAGGAGC
 TGCATTATCTATTCTAGACAAATTTCTTGAAGAATCCTCCAACTGCAGTCTGATTACA
 AGAACCCATTTTGACTACACAACTTGGGATCCAAGTATAAGCCAAAAACCATCTAACAC
 ATTTATCAAGGAGATACCAACAAAGAAAGAAGCATCAAATGTCAAGATTCTCAGCTCT
 TCTGCATCCCGGCCTTCATTATGGTGTCTCTCAAACCTACCACCATCTTCATGGAGACCAT
 ACATTTCTTGATGAAAGTCAAGGCTGTGCAGTATGTGCACAGAGTGCTTGACATGAGCT
 GTTATGCCCTCAAGGAGGCCCCAGCTGTGAATATTACTTGGTGTCTGGCCCAAACACACAT
 TCTTAAGAAGAACTTTGCCAAGGCAGAGGAATACCTTCAACAAGCAGCCAGATGGACTA
 CCTGAACCCCAATGTCTGGGGCCTGAAGGGCCATCTCTATTTTCTGAGTGGAAATCATTC
 TGAGGCCAAGGCATGCTATGAACGAACCATTAGCTTTGTAGTGGATGCTTCTGAGATGCA
 CTTTCATCTTCTGAGACTGGGGCTCATCTATCTGGAAGAGAAAGAGTATGAAAAGGCAA
 GAAAACCTATATGCAAGCCTGTAAGAGATCACCTTCATGCCTTACCTGGCTAGGACTGGG
 AATCGCCTGCTATCGGCTGGAGGAGCTCACAGAGGCTGAGGATGCTCTTCTGAAGCCAA
 TGCATTGAACAACTACAATGCTGAAGTATGGGCATATCTGGCTCTGGTCTGCCTGAAAGT
 TGGACGGCAATTAGAAGCTGAGCAGGCCTACAAGTACATGATCAAGCTGAAATTGAAAGA
 TGAGGCTCTGCTTGAGAGATCCACACACTACAGGAAACAGTTGGCTTTGGAAATCCATC
 TTTCTGATACCCCTCCAGCTGAACAATTTTCTGCATGGGACTCTGAGTTCCTTTCTTCC
 CAGAGAGTTTTACCGTATGAAGCCTGGAGCTGGAGAACGAAAGAATCTTCACTATAAACA

FIGURE 1 (CONT'D)

GAGACCCATTTCATTTATTTCCATTGGCTGTGTTACTGGATGTTTTACTGGTTGACGAGAA
ACTGGGTCAACAATAAAAAAATGGAGATATGAAACTC

Gene 149. >ENST00000286530 cDNA sequence

CAGGAGGAACCTTCAGACATTTATCAGTGAGCTCTATGTGTTCTTAGTAGATCAGATGCAT
GTAGCCCTTGACAAGACCATGCCAGATGATGTCCAAGGCACTGTTGCAACCATTTATACA
AGCAGTGAACAGCTTCAACTCTTTGCATTTGAAGCAGAAGTCAATGAGAACTTTGAGATG
GCAGCAGCATATTATAAAGAGAGATTGGTCCGTGAGCCCCAGAATCTGGATCACTGGTTG
GACTATGGTGCCTTCTGCCTCCTAACTGAAGACAACATCAAAGCACAAGAGTGTTCAG
AAAGCCCTTTCCCTCAACCAGAGTCATATCCACAGCTTGTTGCTGTGTGGTGTCTGGCT
GTCCTGTTGGAGAATATGAGCAAGCAGAAATTTCTTTGAGGATGCTACTTGCTTGGA
CCAATAATGTTGTAGCCTGGACTTTACTTGGTTTGTACTATGAAATTCAAAACAATGAT
ATTGCAATGGAATGGCATTTTCATGAGGCCTCCAAACAGCTTCAGGCACGGATGCTTCAG
GCACAAGTAACAAAGCAAAAGAGCACTGGTGTAGAAGACACTGAGGAAAGAGGGAAGAGA
GAATCTAGTTTAGGCCCTTGGGGAATCACAATGGTTCTGCAACAGCAATCAAGGTGGAA
GCCCCAGCAGGACCAGGAGCTGCATTATCTATTCTAGACAAATTTCTTGAAGAATCCTCC
AAACTGCAGTCTGATTACAAGAACCATTGTTGACTACACAACTTGGGATCCAAGTATA
AGCCAAAACCATCTAACACATTTATCAAGGAGATACCAACAAAGAAAGAAGCATCAAAA
TGTCAAGATTTCATCAGCTCTTCTGCATCCCGGCCTTCATTATGGTGTTCCTCAAACTACC
ACCATCTTCATGGAGACCATACTTTCTTGATGAAAGTCAAGGCTGTGCAGTATGTGCAC
AGAGTGCTTGACATGAGCTGTTATGCCCTCAAGGAGGCCCCAGCTGTGAATATTACTTG
GTGCTGGCCCAACACACATTTCTTAAGAAGAACTTTGCCAAGGCAGAGGAATACCTTCAA
CAAGCAGCCCAGATGGACTACCTGAACCCCAATGTCTGGGGCCTGAAGGGCCATCTCTAT
TTTCTGAGTGGAATCATTCTGAGGCCAAGGCATGCTATGAACGAACCATTAGCTTTGTA
GTGGATGCTTCTGAGATGCATTCATCTTCCTGAGACTGGGGCTCATCTATCTGGAAGAG
AAAGAGCTGGAGGAGCTCACAGAGGCTGAGGATGCTCTTTCTGAAGCCAATGCATTGAAC
AACTACAATGCTGAAGTATGGGCATATCTGGCTCTGGTCTGCCTGAAAGTTGGACGGCAA
TTAGAAGCTGAGCAGGCCTACAAGTACATGATCAAGCTGAAATTGAAAGATGAGGCTCTG
CTTGACAGATCCACACACTACAGGAAACAGTTGGCTTTGGAAATCCATCTTTCTGATAC
CCCTCCAGCTGAACAATTTTCTGCATGGGACTCTGAGTTCCTTTCTTCCAGAGAGTTT
TACCGTATGAAGCCTGGAGCTGGAGAACGAAAGAATCTTCACTATAAACAGAGACCCATT
CATTTATTTCCATTGGCTGTGTTACTGGATGTTTTACTGGTTGACGAGAACTGGGTAC
AATAAAAAAATGGAGATATGAAACTC

Gene 150. >ENST00000265920 cDNA sequence

TTGGCTCTGGTAGCCGCCGCCGCCGCCCAACCCCGCCCGGCCAGAGCCTAGCCGAGC
CCCGGGCCAGCATGGCCGCCCGGAGCCGGCCCGGGCTGCACCGCCCCACCCCGCCC
CCGCCGCCCTCCCGGGCTGACCGCGTCTGCAAGCTGTCCCTTTCCCCCAACACAT
CGCTTGACATCTGAAGAAGTATTTGATTTGGATGGGATACCCAGGGTTGATGTTCTGAAG
AACCCTTGGTGAAAGAAGGTCGAGTAGATGAAGAAATTGCGCTTAGAATTATCAATGAG
GGTGCTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCTCCAATCACAGTG
TGTGGTGACATCCATGGCCAATTTTTTGTATCTGATGAACTTTTTGAAGTAGGAGGATCA
CCTGCTAATACACGATACCTTTTTCTTGGCGATTATGTGGACAGAGGTTATTTTAGTATA
GAGTGTGTCTTATATTTATGGGTTCTGAAGATTCTATACCCAAGCACATTATTTCTTCTG
AGAGGCAACCATGAATGCAGACACCTTACTGAATATTTTACCTTTAAGCAGGAATGTAAA
ATTAAGTATTCGGAAGAGTCTATGAAGCTTGTATGGAAGCTTTTGATAGTTTGCCTCTT
GCTGCATTTTTAAACCAACAGTTTCTTTGTGTTTCATGGTGGACTTTCACCAGAAATACAC
ACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCAATG
TGTGACTTGTTATGGTCCGATCCTTCTGAAGATTTTGGAAATGAAAAATCACAGGAACAT
TTTAGTCACAATACAGTTCGAGGATGTTCTTATTTTTATACTATCCAGCAGTGTGTGAA
TTTTTGCAAAACAATAATTTGTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGC
TATAGAATGTACAGAAAAAGTCAAACTACAGGGTTCCTTCATTAATAACAATTTTTTCG
GCACCTAATTACTTAGATGTCTACAATAATAAGCTGCTGTATTAAAGTATGAAAATAAT
GTGATGAATATTCGACAGTTTAACTGTTCTCCACATCCTTACTGGTTGCCTAATTTTATG
GATGTCTTCACGTGGTCTTTACCGTTTGTGGAGAAAAAGTGACAGAAATGTTGGTAAAT
GTTCTGAGTATTTGCTCTGATGATGAACTAATGACTGAAGGTGAAGACCAGTTTGATGTA

FIGURE 1 (CONT'D)

GGTTCAGCTGCAGCCCGGAAAGAAATCATAAGAAACAAAATTGAGCAATTGGCAAGATG
GCAAGAGTCTTCTCTGTTCTCAGGGAGGAGAGTGAAAGTGTGCTGACACTCAAGGGCCTG
ACTCCACAGGGATGTTGCCCTAGTGGAGTGTTAGCTGGAGGACGGCAGACCCTGCAAAGT
GCAATACGAGGATTCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAAGGGTTTG
GATAGGATCAATGAGAGAATGCCACCTCGGAAAGATGCTGTACAGCAAGATGGTTTTCAAT
TCTCTGAACACCGCACATGCCACTGAGAACCACGGGACGGGCAACCATACTGCCCAGTGA
CCCACTACTTCCAGGGACTCTCACATCTCGGGCCCCAAATGGACAGATCACCCGAGGAG
CTGGAGGGGTGCGCCAAGCTGACTGTAAATTTACAGTCTCTCTGAAGAAACCATTGTGC
TTCTGAGACCCTAGCCCCCTTCTGGATGGAGGCTTGAGGGCCCTGGGACATGTGCTATC
TGATAAGATTGGGTCTCGCTGCCAAGGTGGAGAGCAGTGAGCAAGGGGCTTGGGGCAAT
TTCAGTGGAGGGCATCCACACCTCCATTTTATGCTTGTGGTTACACATTTAAGTTTAC
AAATCAGATTTCTTTTCCCTTTCAGTAGAATTAGATTTTGTTTTTCAATCATGATTTCAA
ATGCAATCCTAAGAGCTAATGTGGACTTTTCTTTTCCATGAAATGTCTTTAAAGGATGA
ATTAGCATGGTCTTAAATACATTTCTGAGGTTACTAGCTGTATTTTGAATTGTGAGCAA
AATGCCGAGAAACCCAGTTGGCATTATACAAAATGTTGACCTCAGGTCTATAGTTCTTA
AATGTGGCTAATTCTGTAAACATAGTCTTGGTATTTTTTAATTATGAATGCATATCCTATT
TCCAGGCAGGCTCTCTTACTTGAACACAAATCCAAAACTAATTTAGAGTCTTTTTTGCC
CAGATCTTTTTAAGACTTACACCCAGAGATTTAAGAAGAAAACCTCTAAATTTCAAATTT
ATGAAGAATTACAGAATTACTCATTTAAGGTACTTTAAAGAAGTTTGTACATTGTCAA
GTAAATTTTAATTCAAATCATGTCTGTAAACTTGACGTATTTTGTGTATGCATGTTTTTC
ATTTTGCAAATATTTAATATATAGACCTATGATGTACAGGTACGACATGTATAGGTTACC
TAGATGTTATGAGAAATTTTAGTTTATTGTGAGTACTCAAGTTGCTTAGAGAGCCACCAG
GGTGATTTGCTGCTGGCTTTCTATCATTTTTATGTTTTAATGCAAAGGAAATTTTAAAT
GTTCTGGAAGTGTTTTTGATTAAAGCAATGCAGCCTAGAAGCAATGGTTCTGTTCAATCAT
TCAGATGTTAGTGAAGCATAAAAGTCAAGACTGCATGTTGAAACCTTTCTTTTGATAGT
TACTGAACTGCTTGGTTAAACTAAATGGAACCATGTGCTAATTTTTTACAATTATTGACC
TGTATTGATTGCCACTGTAGTTTGGTATTTCCCTTTACTTTGGTGGCCTGCTTCCCTCAT
GCCCTGGAATACAACCTCAGAGCTCCAGGCAGCGGAACCATCTATTGTTTTGTTTGCCAGA
AAGTGCACCCTGTATGGTCTCCTGTCTAAGTTGAAATATTATGCATGTGCAGGACTATT
CGAGTATTTTATAAACAGTAGCACACAATAAATTCATGCATGGGCCGCTGCTCCT

Gene 151. >ENST00000320361 cDNA sequence

GGGAAAGAGGGTCCGCCATGTTCCCCGGCGCGCCGCGCTTGGCTCTGGTAGCCGCCGC
CCCCGCCCCCAACCCCGCCCCGGCCAGAGCCTAGCCGAGCCCCGGGCCAGCATGGCCGC
CCCGGAGCCGGCCCGGGCTGCACCGCCCCCACCCCGCCCCCGCCCCCTCCCGGGC
TGACCGCGTCTCAAAGCTGTCCCTTTCCCCCAACACATCGCTTGACATCTGAAGAAGT
ATTTGATTTGGATGGGATACCCAGGGTTGATGTTCTGAAGAACCACTTGGTGAAAGAAGG
TCGAGTAGATGAAGAAATTGCGCTTAGAATTATCAATGAGGGTGCTGCCATCCTTCGGAG
AGAGAAAACCATGATAGAAAGTAGAAGCTCCAATCACAGTGTGTGGTGACATCCATGGCCA
ATTTTTTGATCTGATGAACTTTTTGAAGTAGGAGGATCACCTGCTAATACACGATACCT
TTTTCTTGGCGATTATGTGGACAGAGGTTATTTTAGTATAGAGTGTGTCTTATATTTATG
GGTCTGAAGATTCTATACCCAAGCACATTATTTCTTCTGAGAGGCAACCATGAATGCAG
ACACCTTACTGAATATTTTACCTTTAAGCAGGAATGTAAAATTAAGTATTCGAAAGAGT
CTATGAAGCTTGTATGGAAGCTTTTGATAGTTTGCCTCTTGCTGCACTTTTAAACCAACA
GTTTCTTTGTGTTTCATGGTGGACTTTACCAGAAATACACACACTGGATGATATTAGGAG
ATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCAATGTGTGACTTGTTATGGTCCGA
TCCTTCTGAAGATTTTGGAATGAAAAATCACAGGAACATTTTAGTCACAATACAGTTTCG
AGGATGTTCTTATTTTTATACTATCCAGCAGTGTGTGAATTTTTGCAAAACAATAATTT
GTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAG
TCAAACACAGGGTTCCCTTCATTAATAACAATTTTTTGGCACCTAATTACTTAGATGT
CTACAATAATAAGCTGCTGTATTAAAGTATGAAAAATAATGTGATGAATATTCGACAGTT
TAACTGTTCTCCACATCCTTACTGGTTGCCTAATTTTATGGATGTCTTCACGTGGTCTTT
ACCGTTTGTGGAGAAAAAGTGACAGAAATGTTGGTAAATGTTCTGAGTATTTGCTCTGA
TGATGAACTAATGACTGAAGGTGAAGACCAGTTTGATGGTTCAGCTGCAGCCCGGAAAGA
AATCATAAGAAACAAAATTGAGCAATTGGCAAGATGGCAAGAGTCTTCTCTGTTCTCAG

FIGURE 1 (CONT'D)

GGAGGAGAGTGAAAGTGTGCTGACACTCAAGGGCCTGACTCCACAGGGATGTTGCCTAG
TGGAGTGTTAGCTGGAGGACGGCAGACCCTGCAAAGTGCCACAGTTGAGGCTATTGAGGC
TGAAAAAGCAATACGAGGATTCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAA
GGGTTTTGGATAGGATCAATGAGAGAATGCCACCTCGGAAAGATGCTGTACAGCAAGATGG
TTTCAATTCTCTGAACACCGCACATGCCACTGAGAACCACGGGACGGGCAACCATACTGC
CCAGTGACCCACTACTTCCCAGGGACTCTCACATCTCGGGCCCCAAATGGACAGATCACC
CGAGGAGCTGGAGGGGTGCGCCAAGCTGACTGTAAATTTACAGTCTCTCTGAAGAAACC
ATTGTGCTTCTGAGACCCTAGCCCCCTTCTCGGATGGAGGCTTGAGGGCCCTGGGACATG
TGCTATCTGATAAGATTGGGTTCATCGCTGCCAAGGTGGAGAGCAGTGAGCAAGGGGCTTG
GGGCAATTTCCAGTGAGGGGCATCCACACCTCCATTTTATGCTTGTGGTTACACATTTA
AGTTTACAAATCAGATTTCTTTTCCCCTTCAGTAGAATTAGATTTTGTTTTTCAATCATG
ATTTCAAATGCAATCCTAAGAGCTAATGTGGACTTTTCTTTTCCATGAAATGTCTTTAA
AGGATGAATTAGCATGGTCTTAAATACATTTCTGAGGTTACTAGCTGTATTTTGAATTG
TGAGCAAAATGCCGAGAAACCCAGTTGGCATTTATACAAATGTTGACCTCAGGTCTATA
GTTCTTAAATGTGGCTAATTCTGTAAACATAGTCTTGGTATTTTTTAATTATGAATGCATA
TCCTATTTCCAGGCAGGCTCTCTTACTTGAACACAAATCCAAAACTAATTTAGAGTCTT
TTTTGCCCAGATCTTTTAAAGACTTACACCCAGAGATTTAAGAAGAAAACCTCTAAATTT
CAAAATTATGAAGAATTACAGAATTACTCATTTAAGGTACTTTAAAAGAAGTTTGTACAT
TGTCAAAGTAAATTTTAAATCAAATCATGTCTGTAAACCTTGACGTATTTTGTGTATGCA
TGTTTTCATTTTGCAAATATTTAATATATAGACCTATGATGTACAGGTACGACATGTATA
GGTTACCTAGATGTTATGAGAAATTTAGTTTATTGTGAGTACTCAAGTTGCTTAGAGAG
CCACCAGGGTGATTTGCTGCTGGCTTTCTATCATTTTTATGTTTTAATGCAAAGGAAATT
TTAAATGTTCTGGAAGTGTTTTTGATTAAGCAATGCAGCCTAGAAGCAATGGTTCTGTT
CAATCATTTCAGATGTTAGTGGAAGCATAAAAGTCAAGACTGCATGTTGAAACCTTTCTTT
TGATAGTTACTGAACTGCTTGGTTAAACTAAATGGAACCATGTGCTAATTTTTCACAATT
ATTGACCTGTATTGATTGCCACTGTAGTTTGGTATTTCCCTTTACTTTGGTGGCCTGCTT
CCCTCATGCCCTGGAATACAACTCAGAGCTCCAGGCAGCGGAACCATCTATTGTTTTGTT
TGCCAGAAAGTGCACCCTGTATGGTCTCCTGTCTAAGTTGGAAATATTATGCATGTGCAG
GACTATTCGAGTATTTTATAAACAGTAGCACACAATAAATTCATGCATGGGCCGCTGCT
CCT

Gene 152. >ENST00000318641 cDNA sequence

CTGCGGTGCAGTCCTTGGTCTTTCTGGCAAGTGAGGCGCTCTCCCCCTAAATGTCTCAGA
GGGAGACAAATCAGCGGACTACCTTGCTTCCCTTTGATGACTTGGAAAGGATCTGCAGTCC
CCCTTAAAGCCCCAAGAATGTCTTCTTCCACGACAGCCGTTTGTGGACACATACTGCTT
ACCTCCCTGACTGCAGGACAAGGTCTTCAAAGCTGGAACCTGACTGCGCTCAGTGATC
CCGCAGTGCTCCTCTGTAGAGTGGGAACCCAGGTCCATTTCAAATATCTACGTTGGAATG
AGTGGATCTCGCTGGGGGTGAGAGGCACTTTGTCTACCCACACTGCCAGTCCCAGCCACA
TGCCCTCCTCCCTTCCCTCAAAAAGCAGTGTTCTTAGTCTGCTTCTTCAAGGGGAGAAGTC
GTTTTTATTTATGGAAACGAACTCACTATATGGTAGAAAGAACAAAGAGTATCAGAATTTG
CACTTTGGACTTGGACTCCCCCTCTAAGCAGCTGCACAAGGTGGAACAAACCAATAATCCT
TGCTGATCTGTTTTGTCTTAGGAAAAATGGTGGAGGGAGAATATTAGATCAGGGGTTCT
TAGCCTTGGCTTCATGAATAAGCTCAAGGATGTCAATGAAGCTTTTGACATGATCTCAAC
TTTTTTGTGAACATTTATATATTTTTCTGGAATGGGGTCCATAGAGTTACAAGTTCTTTA
AGACCTCCAGATGGACCCCAATATGGCAGAAATGAACTATTTAAAGATACTGCCTGCTC
CCGTAGTCTGACCCTCTATGGCTAAGCAAGGTTTTAGAGGAGTGGAAGGCTGGCCATTGC
ACAGTATCAGGGTTCAGACAGGCTCCCTGGCTCTTCCCTCCCAGTCTGCTCCTGAGAT
ATAGTTCTTTCTGGCCGCCACTTCCCTTAGGGCAACCCAGAGCTTAAATCATCTGCAAG
GCAGTCACTTTTCAGGCACCTTTTCATCCGGCACCTGTGTTCTTAGCTGGATTAACTAGAA
AGCTAGTTGGAGGAAGGAAGGTGAAAGTGGAGGAAGGGGAAAAGAGGAAAAGTTGGAGAC
GAATCTGGCTTATGGTTAGAAGCATATTTTTTGGCCAGGCAAAGTGGCTCACGCCTGTAA
TCCCAGCACTTTGGGAGGCTGAGGTAGGCGGATTGCCTGAGCTCAGGAGTTGGAGACCAG
CCTGGCCAACGTGGTAAAACCCGCTCTTAACAAAAATACAAAAATTTAGCCAGGCATGA
TGGTGCAAGCCTGTAATCCCAGCTGTTTCAGGAGGCTGAGGCATGAGAATTGCTTGAACCC
AGGAGGTGGAGGTTGCAGTGAGCTGAAATTGCACCACTGCACTCCAGGCTGGGTGACCGA

FIGURE 1 (CONT'D)

GCAAGACTCTGTCTCAAAAAAAAAAGAAAAAAAAAAGCTTATTTTTTGGAGACAGAGTCTCACTC
TGTGCGCCAGGCTGGATTGCAGTGGGGCAAACACAGTTCACTGCAGCCTCAATTTCTTGG
GCTCAAGCAACTATCCTGCCTCAGCCTCCCAGGAGTAGCTGGGATCATAGGTGCTTGCC
ACCACACCTGGCTAATTTTTTAAATATTTTGTAGACACAGGGTCTTGCCACATTGCCAG
GCTGGTCTTGAAGTCTGGGCTCAAGTTATCCTCCCGCTCGGTCTCCCAAAGTTCTGGA
ATTACAGATGTTAGTTACCAACCGGACCAATTTTAGGATTCTTTAGCCAGTGACCTTGG
TGTGACCTTGTACTTCTGCAGCATTTTATACCTTCTGCGGCACACCTTGTAGTGGTGC
AATTGTGTTCCCCCAAAGATATGTTCTAGTCCTAATCCAGTACCTGTGAATGTGACT
TATTTAGAAATAGGGTCTTTGCAGATGTAATCTAGTTCAAATGAGGTCACTAGGATTAG
GGCGGGTCTCATCCAATAACTGTTGTTCTTATTAGAATAGGGAAATTTGGATGCAGAGA
CACAGAGAAAATGCCATGTGAAGATGGATCAGAGACAGAAGTGATGCGGCTGCAAGCCAA
GGAATGTGAAGAATGGCCAGCCACCACCGGAAGCTAGGGGAGACGCCAGCACAGATTCTC
CCTGAGAGTATCCAGAAGAAACCAACCTCCAACACCTGGATTTAGACTTCTGACCTTG
AGAAGTGTGAGCCAATAAAACAAGTGCAGTGG

Gene 153. >ENST00000316258 cDNA sequence

ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCTCAGCCACCTTCCCAATG
CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCATGTAAGATC
GTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGT
ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGAT
GTCCCCAACATCAGAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCA
CTGCTCCAGGACAGCGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
AAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCC
ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAATAA

Gene 154. >ENST00000287258 cDNA sequence

GACTCGGACCGCGGAGGTGAGCGGGAGCTGAGGCTGAGGAGAGGGGAGCTTGGGGGGCGC
CTGCTGCCAAGGGCAGCGGAGGAGGAAATGGCAGGTCTAATCAACTCTGCATTGCGCCGC
TGGACTACCAAGCATGTAGCTGTGTGGCTGAAGGATGAAGGCTTTTTTGAATATGTGGAC
ATTTTATGCAATAAGCACCGACTTGATGGAATCACATTGCTAACATTGACTGAATATGAT
CTCCGGTCTCCTCCTCTGGAAATCAAAGTCTTAGGGGACATTAAAGGTTAATGCTCTCA
GTCCGAAAATTGCAGAAAATACATATTGATGTTTTAGAAGAGATGGGCTACAACAGTGAC
AGTCCCATGGGTTCCATGACCCCTTTTCATCAGTGCTCTTCAGAGTACAGACTGGCTCTGT
AATGGGGAGCTTTCCCATGACTGTGACGGACCCATAACTGACTTGAATTCTGATCAGTAC
CAGTACATGAATGGTAAAAACAAACATTCTGTTTCAAGATTGGACCCAGAATACTGGAAG
ACTATACTGAGTTGTATATATGTTTTTATAGTATTTGGATTTACATCTTTTATTATGGTT
ATAGTCCATGAGCGAGTGCCTGACATGCAGACCTATCCACCACTCCAGATATATTCTTA
GACAGCGTTTCTAGAAATCCCATGGGCCTTTGCCATGACGGAAGTATGTGGCATGATTCTG
TGCTATATTTGGCTCCTGGTTCTTCTTCTTCAAGCACAGGTCAATACTTCTGCGAAGG
CTCTGTAGTCTGATGGGAACTGTATTCTTGCTTCTGCTTTACCATGTTTGTGACCTCC
CTCTCCGTGCCAGGACAACACCTGCAGTGTACTGGAAAGATATATGGCAGTGTATGGGAG
AAATTACATCGAGCCTTTGCCATTTGGAGTGGCTTTGGTATGACCCTGACTGGCGTTTAC
ACATGTGGAGATTACATGTTTAGTGGCCACACAGTGTCTCTAATATGCTGAATTTCTTT
GTCACCGAATGTAAGTATCTTTTTAGTGCTTCTATGCGTATTAGGTAA

Gene 155. >ENST00000260908 cDNA sequence

TTTCAGAAGAAATGGTACCAGCTCCTCTTTATGCCTCTGGTAGGATTGAGCTGTGAATCC
ATCGGGTCTGGAATTTTTTGGTTGGTAGGCTAATAATTGCTACCTCAATTTCAGAACTT
GTTATTGGTCTATTACAGGATTCAACTTCTTCTGGTTTAGTCTTGGGAGGGTGTATGTG
TCCAGGAACCTTACCATTTCTTCTAGATTCTTTAGTTTATTTGCATAG

Gene 156. >ENST00000302526 cDNA sequence

ATGGAGTCAATATATCTTCAAAAGCACCTTGGGGCTGTTTAACTCAAGGTCTTGCAGAA
GTGGCAAGAGTTCGCCCAGTGGATCCGATAGAATATTTAGCATTGTGGATTTACAAGTAT
AAGGAAAATGTGACCATGGAACAACCTGAGACAAAAGGAAATGGCCAAGCTGGAGCGTGAA
AGAGAATTAGCTCTGATGGAGCAGGAAATGATGGAGAGGCTCAAAGCAGAGGAGCTCTTA
CTTCAGCAGCAACAGCTGGCATTGCAGCTAGAGTTGGAAATGCAAGAAAAGGAGAGGCAG
AGAATACAAGAACTACAGAGAGCTCAAGAACAAATTAGGCAAGGAGATGAGAATGAATATG

FIGURE 1 (CONT'D)

GAAAATCTAGTTAGGAATGAAGATATTCTACATTCAGAGGAAGCAACACTAGACTCAGGC
 AAAACACTAGCTGAAATCAGCGATCGTTATGGAGCACCTAACTTGAGCAGAGTGGAAGAA
 CTTGATGAACCAATGTTTTCTGATGTCAGTATCAGTGTG

Gene 157. >ENST00000298468 cDNA sequence

GGTTGCGGCGGGCGGAACGGTGTCTCCTTCACTTCGCCCTCCAGCTGCTGGAGCTGCAGC
 CCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCCCT
 CAGGACACCACAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGACAGACT
 TGC GCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGAT
 ATTTTCAACAAAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGC
 AGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGG
 ACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTACAGAAAAGTGGAAAC
 ACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAA
 CTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCT
 TCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCT
 GCAATCCATGGTTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACC
 TTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG
 GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAG
 AAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGC
 ACTCGTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTGCAAAA
 GTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAG
 CTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG
 CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAATGGATATCAGA
 AGATTTGGCCTTAATATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCAAGAAGA
 TGATCAAAACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTAGACAGTTCTTT
 GTTAGCTGGTTTTCTAGTTGGTTATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATA
 CATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGACCTTT
 ATGAAAACCTGTGCAATTGTGTGCATGTTTGTTTTTATGTTCTTTAGAAAACATTGACTG
 TTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAGGTTACAAATTTTGTTAAGTT
 CAGCCATTATTACTTTTGGTATCCCAAGACATGACAAATTATGAATAAAACAAGTATACA
 T

Gene 158. >ENST00000304595 cDNA sequence

GCTGCTGGAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCG
 GTGGCGGCGGCCCCCTCAGGACACCACAGATTCCCCTCTTCCCGCGGCCTCGCCATGG
 CGACCCACGGACAGACTTGCGCGCGTTCGATCGGATCAATCACTTTTCTAGAGGAAGTAGC
 AGTCCCTCTTGTGAGAGCGCAAGGTCACTTGTGCTCCTAAGGGCGTGGACGTGCTTT
 GTGGAATGAATGAGCTGGTGTAAATGAGCTCAGATTGCCTGCCCTTAAGCAGCACAGCATT
 GGCCGAGGACTTGAGAGTCACATTACAATGTGTATTCTCCATCATATGCTGACCTTGGC
 AAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTG
 AAAACAAAGTCTTGCAAGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGACACT
 GGTAAAGTTACTGGGACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTC
 ACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATT
 TGTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGT
 GGTAAAATCAAGTCTTCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTT
 GATTTTGCTGGACCTGCAATCCATGGTTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT
 GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTG
 GGCTACAGGACTGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGA
 GGATCAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACA
 TCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCT
 TCCATTTCTGCAAAAGTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG
 AGGCCTGGTGTGAAGCTTCACTCTCTGCTCTGGTAGATGGGAAGAGCATTAAATGCTGGA
 GGCCACAAGGTTGGGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAA
 TGGATATCAGAAGATTTGGCCTTAATATATTTCCATTGTGACCAGCAGCAGGCTTTTTTC
 CCCCAGAAGATGATCAAAACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTA
 GACAGTTCTTTGTTAGCTGGTTTTCTAGTTGGTTATCTAGTTACCAATGCTGCAGTCCTGC

FIGURE 1 (CONT'D)

AGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGA
AATAGACCTTTATGAAAACCTGTG

Gene 159. >ENST00000280867 cDNA sequence

ATGAATGGACCGGTGGATGGCTTGTGTGACCACTCTCTAAGTGAAGGAGTCTTCATGTTT
ACATCGGAGTCTGTGGGAGAGGGACACCCGGATAAGATCTGTGACCAGATCAGTGATGCA
GTGCTGGATGCCCATCTCAAGCAAGACCCCAATGCCAAGGTGGCCTGTGAGACAGTGTGC
AAGACCGGCATGGTGTCTGTGTGGTGAGATCACCTCAATGGCCATGGTGGACTACCAG
CGGGTGGTGAGGGACACCATCAAGCACATCGGCTACGATGACTCAGCCAAGGGCTTTGAC
TTCAAGACTTGCAACGTGTCTGGTGGCTTTGGAGCAGCAATCCCAGATATTGCCAGTGC
GTCCATCTGGACAGAAATGAGGAGGATGTGGGGGAGGAGATCAGGGTTTGATGTTCCGC
TATGCTACCGACGAGACAGAGGAGTGCATGCCCCTCACCATCATCCTTGCTCACAAGCTC
AACGCCCCGATGGCAGACCTCAGGCGCTCCGGCCTCCTCCCCTGGCTGCGGCCTGACTCT
AAGACTCAGGTGACAGTTTCACTACATGCAGGACAATGGCGCAGTCATCCCTGTGCGCATC
CACACCATCGTCATCTCTGTGCAGCACAACGAAGACATCACGCTGGAGGAGATGCGCAGG
GCCCTGAAGGAGCAAGTCATCAGGGCCGTGGTGCCGGCCAAGTACCTGGACGAAGACACC
GTCTACCACTGCAGCCCAGTGGGCGGTTTGTCTCGGAGGTCCCAGGGGGATGCGGGT
GTCACTGGCCGTAAGATTATTGTGGACACCTATGGCGGCTGGGGGGCTCATGGTGGTGGG
GCCTTCTCTGGGAAGGACTACACCAAGGTAGACCGCTCAGCTGCATATGCTGCCCGCTGG
GTGGCCAAGTCTCTGGTGAAAGCAGGGCTCTGCCGGAGAGTGCTTGTCCAGGTTTCTAT
GCCATTGGTGTGGCCGAGCCGCTGTCCATTTCCATCTTCACCTACGGAACCTCTCAGAAG
ACAGAGCGAGAGCTGCTGGATGTGGTGCATAAGAACTTCGACCTCCGGCCGGGCGTCATT
GTCAGGGATTTGGACTTGAAGAAGCCCATCTACCAGAAGACAGCATGCTACGGCCATTTTC
GGAAGAAGCGAGTTCCCATGGGAGGTTCCAGGAAGCTTGTATTTTAGAGCCAGGGGGAG
CTGGGCCTGGTCTCACCTGGAGGCACCTGGTGGCCATGCTCCTCTTCCCAGACGCCTG
GCTGCTGATCGCCTTCCCCACCCACCAACCCCTCAGGGCAAAGCCAGGTCCCTCTCATTTA
GCCTGTCTCTGTCATCATCATGGCCAGCTGGAGGCAGGGGCTTCTGGTGTGGAGGTTGG
ATCTTGATGTAAGGATGGGCATGGTGTCTCTCTGCTGCTCCCTCAGACTGGGGCAATGTT
AATTTAGTGGAAAAGGCACCCCCGTCAAGAGTGAATTCCTCACTCGTCTCCCCCAACAG
CTGGACCTTGACCAGCTCCCCCTCCCTCCCCTTGCTGTGCCAGGTGAGGTGAGGCATC
TCAACAGGCCTCAGGGCTCCTTGTGGGCCTGGGCTCCTGGACCCCCCTTTTACAGGCAGC
CAGTGCCCTGAGCCAGGGTCTCCAGAAAGCCCCACCCAGGCCAGGCATGTGGCAGGGGTT
AGAGCAGGACTGATGTCTCCTAAGCACCTGTAATGTGCGAGGGACCCAGCTAATAACTGA
TCTCGTTTTTTTCTTCACTGCAACATGATGAGGTAGTACCTTTTATATCCCATTTATAGAT
GGGGGAAAGCAAAGCACAGAGAGTCTGGATAACTTCCACAGGGTCCCACAGCCACGTGTT
TAGACCTAGATGTATAACTAGGAGCTTTGACTCAGGAGCCTGTGACATAACCCCTCCCCC
ACCGTTGTCTCATGCCAGTAACAGGCTCAAACAATGACAAAGCAGATTTCAGAAATGAGGC
CATGGACTCTGTCTGAAGGCCTGAGGTTACTGGAAATTAGGGGATTAAACCCACTAGCTC
TTGTTGAGCCGTGGGCAATTGTCTGAAAAGTGAAGACAGAACCACAGGGCTATTTTGT
GCTTCATGTGTCCCAGAAGATGACTGAGGGTGAGTTGGCTTACCTGGCCCATCAGGGTAG
GCTGGAGTTAGGGACTGACCAGCAGCTTTAGAATCCCAGCCCCCTGACCACTCAGAGACA
TGCAGAGATTGGGTTTTTGGACTTCTGGGGTAAGTGGTCTAAGTCCAGTCCAGTCCATC
TGGGCTTCTGGAGCAGAAGCAGCAACTTGTCTAGCACAGATGGCCAGCCCCCTTAGACA
GAGGCCCTCAAGTCTTTCTCTTCCCTGGTCCCTTGTATCCCCTGCAGGCTGAGTGCATT
TGGAGGGAGTGAGTGGCCCTTTTCGGATCCAGGGAGGCTGGTCTATGGCCTCATGTTAAA
TAGGCGGGGCTTGCCTTCTGGTGTGGACAAGCTTCTGAGACGTGATGAGGAGATTCTGC
CTTTGCCAGGTGACTGTCTGGGAGCGGGTCTGCTCCCAAGGGGCTGAGCAGTCCCTGG
CCTGCTAAGGTCTTGGAACCTTGCCCTGCCTTTCCATCCATGGCCAGCAGCACCTGCCCTAC
CTGCCCCACTTGTCTTAGCCTGGACCTCTGACAGCAGCATCTCTACCTTCTCCCCAGCT
CCCAGGACCACAGGCTCAGGCAGGGGCTCCATGGGCCCCAGGGGAACACTGGGGACTTG
GCCTCTCTCTAGGGTACATGGTGTCTGGGAGAGGCAGCCAGGAAGTCTCATCTGGGGAGC
AGGCAGCCAGCATCTGGGCCTTGGCCTGGAGCACAAAGACCCTGGCTTTTCACTTTCTCTC
AGGTGAAAGGAAATTAAGGCAACAAAAGAAGCCCGGCTCCTGGTCACCTAGGAAGCCTCA
GATTCCTTCCCATGGAGGGAGGGAGTGGTTTGCAGGTGGCCAAGTTCCTCTAACTTGGCT
CACACTCGACATGAAAATTCAGAATTTTATACTTTCCCTACCCTCTAGAGAAATAAGATC

FIGURE 1 (CONT'D)

TTTTTTGTCAGTTTGTGTTGTATGAACTAAAGCCTTTATTTGTTAATAGTTCCTGCTAAA
ACAATGAATAAAAACTCAAGGAGC

Gene 160. >ENST00000316132 cDNA sequence

AAAGCGGAAGGGGCGCGGATAGAGCTCCAGTGTGCCAAGCGTGGGCGGTATACAGTA
AACAAAGACAACCCCTATTCTTATCACCTTGCCTACTGAGTGCAAGTCCAGGAACTGTGT
AAGCAGACCCCTCAGAGGAGCTCTGGGAAACACTGAAAAATAGCCTCTCCCCCATTGGCT
GCCAGGATGGAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCAGGCACTG
GCAGAGGTGGCGAAGGTTTCGGCCCAGTGACCCAATAGAATACCTGGCTCACTGGCTTTAT
CATTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAAAAGAAGATCCACCTGCAG
GAGGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAAATGCTGAAACAGGAAGAG
TATCAGATTCAACAGAACTGTGAAAAGTGTCAAGGAAGTCACTTCTGAAACTGTTTCC
ACGAAGAAGACCATATTTCATGCAGGAGGACACAAACCCCTTGAGAAGGAGGCCTTGAAG
CAGGAATTCCTGCCAGGTACTTCCAGTCTGATTCCAGGAATGCCTCAACAGGTTCTCCT
TCAGAGTCTGCTGGCCAGATTGACCAGAACTTCAAAATGCCACAAGAAATAAATTACAAG
GAGGCTTTTTCAGCATGAAGTTGCTCATGAAATGCCTCCTGGCTCCAAATCTCCTTTTTAG
GTTACAGAAGGTAGATGCTTCTGATTTACTTCTCTCAAAGCTAGAAGCCAAGAAAATGGC
CAGCTAGAACCAAGATTTAAGGGGCTGTAAAAGGCAAGTTCAGGGACTCTCCAGCCTACT
CCTTTTCTGAAAAACCCCTTAATCATGTGAACATTTGAACTAGTTATAGGATAAAATAAAC
TCAGAATAAGGATTTAAAATAAGTAACCAAGTGGCTGTGACTTTTTCTCTTGTTTTATC
AACGTTTTTGGAGACTACACAATGAAAACACATCTGTTGGGGTGATCAGACCCAACACCCG
GCCATGGGGGCTACAAAGTCCAGCCGAGTCAAAGGAAAGAGAAAAGACAAGTCAAGAGAG
AAAGTGGGACCAGGGGGCCAATGCTAGTATGGAGGCTGTGAAGTCCCCAAGCTCTGGAAG
CCCACACTATTTGTTGGTGATCAAACAAAGAAACAGGTGATGAGGATGTGGGAGTTGAAA
GAAAGTGGTGTATCAAGCGAATGAACTACAGCTGTGAGGGTTTAGCATTCTTTTGAAC
ATATGGCTACTTTAGATAATGGGAGTGCTAGAAGCAAGGAGCCAGCAAGTCTGGACACAT
TACAAAGGCCACAAGGGGTTTTATCCTGGACCCCGGACATGTTCCAAGCCCTGCCTCAAC
TTTTCTCCCAACACTAAGCTTTCTCCCAACACACATCCATCTCGTGTGTTTCATGTCTTA
ACTTTTGTCTTCACTTACAGTCAGGCCTCTCCGAGTATTTTTTACACATATCCTGGAGTC
TACCTATGTCACTGATAGCAGATATTTTTCTTCAACATATATTATCAATGTTTTAATACT
TTTCTTCAATTTTAGTAAGTGGTAAAATACATGTAAGATGTACCATCTTAACCATTTTTTA
AGTGTACAGATCAGTTGTATTAAGTAGATTTCATATTCTTGTGCAACCATCATCACCATCC
GGCTGCAAAACTCTTTTCATCTTGCAAAACTGAAACTCTACACCCATTAAAAAATAACTCG
CCATTTCTCTCTCTCCCCAGCCCTGGCAACCACCATTTCTTTCTGTCTCTGTGATTTAGA
TTACTCTGTAAGTATGTTGTATAAATAGACTCATACAATGTT

Gene 161. >ENST00000241895 cDNA sequence

AAGCGCGGGGCCCCGCCCCCTGGGACCCCTCCGGGCGGGCGGTTTGGCCCCCTTAGCGCCCGG
GCGTCGGGGCGGTAAAAGGCCGCGCAGAAGGGAGGCACTTGAGAAATGTCTTTCCTCCAGG
ACCCAAGTTTCTTACCATGGGGATGTGGTCCATTGGTGCAGGAGCCCTGGGGGCTGCTG
CCTTGGCATTGCTGCTTGCCAAACAGACGTGTTTCTGTCCAAGCCCCAGAAAGCGGCCC
TGGAGTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTTCAAAG
CAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTT
TCCTCTGTGAGAGGAAGCTGCGGATCTGTCTCCTGAAAAGCATGTTGGACCAGCTGG
GCGTCCCCCTCTATGCAGTGGTAAAGGAGCACATCAGGACTGAAGTGAAGGATTTCCAGC
CTTATTTCAAAGGAGAAATCTTCTGGATGAAAAGAAAAAGTTCTATGGTCCACAAAGGC
GGAAGATGATGTTTATGGGATTTATCCGTCTGGGAGTGTGGTACAACCTTCTTCCGAGCCT
GGAACGGAGGCTTCTCTGGAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCG
TGGTGGGATCAGGAAAGCAGGGCATTCTTCTTGGACCCGAGAAAAAGAATTTGGAGACA
AAGTAAACCTACTTTCTGTTCTGGAAGCTGCTAAGATGATCAAAACACAGACTTTGGCCT
CAGAGAAAAAATGATTGTGTGAAACTGCCAGCTCAGGGATAACCAGGGACATTCACCTG
TGTTTCATGGGATGTATTGTTTCCACTCGTGTCCCTAAGGAGTGAGAAACCCATTTATACT
CTACTCTCAGTATGGATTATTAATGTATTTAATATTCTGTTTAGGCCCACTAAGGCAAA
ATAGCCCCAAAACAAGACTGACAAAAATCTGAAAACTAATGAGGATTATTAAGCTAAAA
CCTGGGAAATAGGAGGCTTAAAATTGACTGCCAGGCTGGGTGCAGTGGCTCACACCTGTA
ATCCAGCACTTTGGGAGGCCAAGGTGAGCAAGTCACTTGAGGTGGGAGTTCGAGACCA

FIGURE 1 (CONT'D)

GCCTGAGCAACATGGCGAAACCCCGTCTCTACTAAAAATACAAAAATCACCCGGGTGTGG
TGGCAGGCACCTGTAGTCCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCT
GGGAGGTGGAGGTTGCGGTGAGCTGAGATCACACCACTGTATTCCAGCCTGGGTGACTGA
GACTCTAACTAAAAAAAAAAAAAAAAAAAAATTGATTGCTGTGCCTCATTACAAATGCAT
ATGATGTTTGGAGTGTCTGTTGTTTGAAATTATTTTTCTTTTCGGGTCTTCAAAAATTCAAG
AAAAGTTGATGATTGACTTGAAGATTACAAAATTTAAGGTTTTTTGGCATGTGTGTTTTTC
TATTAATAATTGGTTATATGATGTCAAAGTAATACTTTTCATAATAGAATTGACATGCTCT
GGGATAGTTTTGACAAAGGTAAATTATAAAGTGAAATCTCTTGTTTCATTATCTTCCATTCT
TAACCTCAGAGATCTGTTTCTCTAGAAAAATGTCCATCTCTGGCTTTAATAAAATTATG
CATCAG

Gene 162. >ENST00000334512 cDNA sequence

GGTGGTTTTGCAGATCACTGAGGCTGGACAACGTTTCATGGCTCTCGGGTAGAACCTAGTGA
AACGGCCAGAATGAATTCTATGGACAGGCACATCCAGCAGACCAATGACCGACTGCAGTG
CATCAAGCAGCACTTACAGAATCCTGCCAATTCACAATGCCGCCACGGAGCTGCTGGA
CTGGTGCGGAGACCCACGGGCCCTTCAGCGGCCCTTCGAGCAGAGCCTGATGGGCTGTTT
GACGGTGGTCAGTGGGTGGCAGCCAGCAAGGCTTTGACCTGGACCTCGGCTACAGACT
GCTGGCTGTGTGTGCTGCAAACCGAGACAAGTTTACCCCGAAGTCTGCCGCCCTTGTTGTC
CTCCTGGTGCGAAGAGCTCGGCCGCTGCTGTGCTCCGACATCAGAAGAGCCGCCAGAG
CGATCCCCCTGGGAAACTCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACC
CACTCTGTGCGACAGTGATGGGTGCTTCCCCTATGACTCTGTCCCTTGGCAGCAGAACAC
CAACCAGCCTCCCGCTCCCTTTCCGTGGTCAACACGGTTTGGGGAGTAACCAACACATC
CCAGAGCCAGGTCTTGGGAACCTATGGCCAATGCCAACAACCCCATGAATCCAGGCGG
CAACCCCATGGCGTCGGGCATGACCACAGCAACCCAGGCCTCAACTCCCCACAGTTTGC
GGGGCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACATCCAGCAGAG
CATGTATGGCCGGCCCCAACTACCCCGGCAGCGGGGGCTTTGGGGCCAGTTACCCTGGGGG
TCCTAACGCCCCCGCAGGCATGGGCATCCCTCCGCACACCAGGCCGCTGCTGACTTCAC
TCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGCAGCAGCAGCCACAGCTACAGC
CACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACAGAACAAGGATATAAACAGTA
TGGACCGATGGGTCCCACCCAGGCGTATAACAGCCAATTTCATGAACCAGCCCGGGCCGCG
GGGGCCTGCCTCCATGGGGGGCAGCATGAACCCCGCAGCATGGCGGCTGGCATGACGCC
CTCGGGGATGAGCGGCCCTCCCATGGGCATGAACCCAGCCCCGGCCGCCCCGGCATCAGCCC
CTTTGGCACACACGGGCAGCGGATGCCCCAGCAGACCTACCCGGGCCCCCGGCCCATCAGCCC
CCTTCCTATTTCAGAACATAAAGAGGCCATACCCTGGAGAGCCCAACTATGGAAACCAGCA
ATATGGACCAAACAGCCAGTTCCCCACCCAGCCAGGCCAGTACCCAGCCCCCAACCCCCC
GAGGCCACTCACCTCCCCCAACTACCCAGGACAGAGGATGCCAGCCAGCCGAGCTCCGG
GCAGTACCCGCCCCCCCCACGGTCAACATGGGGCAGTATTACAAGCCAGAACAGTTTAATGG
ACAAAATAACACGTTCTCGGGAAGCAGCTACAGTAACTACAGCCAAGGGAATGTCAACAG
GCCTCCCAGGCCGGTTCTGTGGCAAATTACCCCCACTCACCTGTTCCAGGGAACCCAC
ACCCCCCATGACCCCTGGGAGCAGCATCCCTCCATACCTGTCCCCCAGCCAAGACGTCAA
ACCACCTTCCC GCCTGACATCAAGCCAAATATGAGCGCTCTGCCACCACCCCCAGCCAA
CCACAATGACGAGCTGCGGCTCACATTCCCTGTGCGGGATGGCGTGGTGTGAGGCCCTT
CCGCCTGGAGCACAACCTGGCGGTGAGCAACCATGTGTTCCACCTGCGGCCACGGTCCA
CCAGACGCTGATGTGGAGGTCTGACCTGGAGCTGCAGTTCAAGTGCTACCACCACGAGGA
CCGGCAGATGAACACCAACTGGCCCCGCTCGGTGCAGGTGAGCGTGAACGCCACGCCCTT
CACCATTGAGCGCGGCGACAACAAGACCTCCCAAGCCCCCTGCACCTGAAGCACGTGTG
CCAGCCGGGCCGCAACACCATCCAGATCACCGTCACGGCCTGCTGCTGCTCCACCTCTT
CGTGCTGCAGCTGGTACACCGGCCCTCCGTCCGCTCTGTGCTGCAAGGACTCCTCAAGAA
GCGCCTCCTGCCCCGAGAGCACTGTATCACGAAAATCAAGCGGAATTTTCAGCAGCGTGGC
TGCCTCCTCGGGCAACACGACCCTCAACGGGGAGGATGGGGTGGAGCAGACGGCCATCAA
GGTGTCTCTGAAGTGCCCCATCACATTCCGGCGCATCCAGCTGCCTGCTCGAGGACACGA
TTGCAAGCATGTGCAGTGCTTTGATCTGGAGTCATACCTGCAGCTGAATTGCGAGAGAGG
GACCTGGAGGTGTCTGTGTGCAATAAAACCGCTCTGCTGGAGGGCCTGGAGGTGGATCA
GTACATGTGGGGAATCCTGAATGCCATCCAACACTCCGAGTTTGAAGAGGTCAACATCGA
TCCCACGTGCAGCTGGCGGCCGGTGCCCATCAAGTCGGACTTACACATCAAGGACGACCC

FIGURE 1 (CONT'D)

TGATGGCATCCCCTCCAAGCGGTTCAAGACCATGAGTCCCAGCCAGATGATCATGCCCAA
 TGTGATGGAGATGATCGCAGCCCTGGGCCCCGGCCCGTCCCCCTATCCCCTCCCGCCTCC
 CCCAGGGGGGACCAACTCCAACGACTACAGCAGCCAAGGCAACAACCTACCAAGGCCATGG
 CAACTTTGACTTCCCCACGGGAACCTGGAGGGACATCCATGAATGACTTCATGCACGG
 GCCCCCCCAGCTCTCCACCCCCCGGACATGCCCAACAACATGGCCGCCCTCGAGAAACC
 CCTCAGCCACCCCATGCAGGAACTATGCCACACGCTGGCAGCTCTGACCAGCCCCACCC
 CTCCATACAACAAGGTTTGCACGTACCACACCCCGAGCAGCCAGTCAGGGCCTCCATTACA
 TCACAGTGGGGCTCCTCCTCCTCCTCCTTCCCAGCCTCCCCGGCAGCCGCCACAGGCCGC
 TCCCAGCAGCCATCCACACAGCGACCTGACCTTTAACCCCTCCTCAGCCTTAGAGGGTCA
 GGCCGGAGCGCAGGGAGCGTCCGACATGCCGGAGCCTTCGCTGGATCTCCTTCCCGAACT
 CACAAATCCTGACGAGCTCCTGTCTTATCTGGACCCCCCGACCTGCCGAGCAATAGTAA
 CGATGACCTCCTGTCTCTATTTGAGAACAACCTGAGGGCCACCCGGTCGGGGCCATCCCTC
 CACACTCTGCATCCTACCCACCTACCCAACACACTTTTCCACCTGGGAGCCTGTGCCCT
 CAGACCGCCCCGCACCAGAGCCACGGGCTGTGGGGCGGGGAGCCCTCCCCGCTGCAGCC
 CTCTCAGAACAGAGGGGTAGGGAGGGTGCACCACTGCACCAGGAAGGCTGTGTGGGTCTG
 GAGCCACGTCCTCCACCTCCACACCTTGGCTTGGGCCCATGCCAGCGCAGGCCTGAAGA
 CCACCTCCCCGAGAGGAACAGCCCGGTAAGAGGGCACACGCTGATGCGGCTTCCCGGTC
 CCTCCGCGTGTGCCGATTCCAGATGACCTTCCAGTGTCCCAAGGTTCTTCCATCTTCTA
 GACTGTAACCTGCCTCCCTGCTTCTGGTCCAGAGCCTCCCTCCAGTGAAGTGTGGAGCC
 TGAGAAGGCCCCCGGGCCCCAGCATGGGCCCCGAGCCTTGGAGGAGCACTGGCAGTTGGT
 GGCAGTGAGACCAGCCACCCACCCACCCACCCACAGAAAAGCACAACCTCTGGGAAA
 GACAACGTCTCTCGGGGGCCAGGGGTGATCGGTTTGACCCCTGACCTATAAGCCAAGATA
 CCCCATAAACACACTCAGAAAGCAGAGAAAAAGGACAAGAGTCTGTGTTTGAGAGGGGGT
 CTGCCATTCTGCTTGGGGACTGGTGGGGAAGAGGGCCAGGACATCTTCTGAGCCAGGAC
 GTCCCTGAGGCTCCACCTCCAAGCTCAGACAGGGCCAGGCTTGGGGAACAGAGAGAGCA
 GGTGTACACCCAACCAAGTGATTGTGCCCTTGGTTGGGGGGCGCGGCATATAACCTGT
 CAGAAGCAAACAGGAGCGGCAACTTCTAACTTTGCTCCAAGCCACTCTCTTTTAAACAG
 CAACAATTTAAAGCTATGAAGTCACCTGGAGAAAAGGAACGTTGCTCTTGGACAGCAAGC
 AAACCATTTCTCTCCGTCTGTTCTGTTTTTCTCCTAGTCCCTCTCCTGCCACCTCTCCAA
 GACTTCCGTGGGACACCCACTTCCCTCTGTCTCTAGTTCTCTTTGTCCAATCAGATGGCAA
 GGGCAGTGCGTGGAAAGGCCGGGGAGGTGCAGAAACCAGAGCCCAGGGCAATGGTGTCTG
 TCCAGCCCCCTCCCTCTGTCCCTGTGCTCCAAGCTGCCCCCGGCTGCAGCCCAGGCCATGG
 ACATGTGCACCAGTATGTACCTGCAGGCATGGGGGGGAGGGGGGCGTGTCTTGGGCCTG
 CCCAGACACTGCCCTTGGCTGCCAGCCTACCTGCTGCACTCCTCCACCATCACAATC
 TCACCCAAACTCCTGCTCACTCAAGCAAAAGCAGCCTCTGGCCTTCCCTCCACCGCTTTG
 CTCCATCTGGCTTACCACTCTCCAGGGCCTCCTGGGGAGCCTGTCTGTGTTCACTTTGT
 TTCAGGCTGGTCTGTGCCCCGTGAGCCACATGGCCTAGGGTGATGCCAGGTTGTCCCGTC
 ACTGGGGTCCCATCTGTAAATTCTTTGCGCCCTTCCCGGCTGCTGCCTGGGGCCCTTTCC
 TGCTCTCCCGTCCGCTGTGGGTGGTCCCCAGCTCTCCTCTGTGGGTTTTACCGGAAAGGT
 GGCCCCAGCTGTTGACTTCCAGTCACTGTCCCAGACGGCACAAGGTTTTCTGTAGGAAAG
 CTGCCATTGCCCCGGCCCCCTTTTCTTCTTTGTCCCCTTGTGAGGTTTTTTCAAATAGC
 GTGTTGTTTCAAGTATGCAAATCAATTATTTTAAAGAATCGTTTTTGTAAATATCTTTGTGAA
 TATTTTAGTATCGTCTTTGATAATATTCAACATTTTTCATGACCTGGTTATAGCCTTTGCT
 GGTGTTTTTAAATAACCTGGACTCAATGACAAAGACCGAGTCTTCTTTTTTTTTTAAACAA
 AAACAAAAAAGCAACCAGGGCTATTTGTACAGTTGAAGGGGTGAACAGAATGGGCGGCT
 GTGCTGGGAGTTGGAAGACCGGGCAGCCCGCTATTTAGAGCCATCCCTCAGTCAGCTGGC
 AGGGACAAGCCAACGCCAGGTAGCATGTGGCCACCTTGCCAGTGTCTGTGGCCTGGCA
 AGTGGCCACGCCCTGTGTGAGACCATCTGGGAATTAAGCTCCAGACAGACTTACAGATGC
 CTTCTTAGGAGTTCTTGCTTCTTGCGTTGATACTTTGCCCCAGAAAGGCTGGGATTCA
 TTCTGGTTCTTATCAGGGTGTGTCCACACTCTGCTCACAGGTGGATCCACGGCTTTCCAG
 TGCGGAGAGTCGAGATGCTCCCTGCAGCCCAGGCCCCGGGCACCTCCTGCAACCATCTCT
 GGGCTCAGCACCTGAGGCGGGTTTTCTGGGTCCCCTCTCCAGCAAGCCTCCACCAGCAAG
 CTCGGCCCAGAGCTTCCCTTCCGGCTGGCTCTGAACCGTGCCTGGTGCCTACAGCCTGCA
 GTCTGGAGACAAGCTCTTCCGGAGTGCTCTGGGAGCCAGGCCAGGGTGTGAGGGAGGTGC

FIGURE 1 (CONT'D)

AGAGGCATCCGGGGCGGGAGCAAGCCCCAGGTTGTGACAGGTGCAGGTAGACAACGCCCCA
TAAACAGAGATGGTCTGAACTCTGGAGAGATCCTTCCCTGATCCTTTCGGACGACTACT
TGGAGCCATAAGTAACCTCAGCAAAAACGAGGCCTCTGCAAGCCACTTTTCCATGCCAAG
CATCCACCCGGCCACAGGCATGTTTCTGCCGCCACTCCGCAAGATGGACAGGGAGCCAG
CAGGCAGGCGGGAAGGGCCAAGTACAGGCAATCACCCCATCTTCTTGTTTTGAAGCTTT
ATCCATGTATCATGTTCCGTGTAGCCATTTTATTTTTTAAGAACTGCTAATACTTTCTC
CCTAATGGAAGCCCTGATCCCCAGAGAGCTACAGGTCTGCTCCCGACGGGCCTCGGGCC
TGACCCGTCCACACAGGGCCGTGTCAACAGCAGCGACTCAAGGGACGTGTGTACATATGT
AAATGAGAAATAGAGACGTGTCAACAGATGCATTTCATTCTCTTGGAATGTGTATTGTTT
TTATTTTTCGAAAACAAAACAAAACAAAAAAGCTTGGAATCCATCACGTGGAAAAA
CTAGATCCTGTTGGTTATAGCATTTGTGAGTTCTCCACGTCTGTCTCTCTCGCTCATGTA
ATATACTCTGACCCTGAGTGGAAAGGGGTTTTTGTCTGTTTTTATTTTACCTACATGTA
CTATTTAGCTTCAGTGTACTAGTCTGCCACCTGTGTATTTTATAGGGTGCTATGGAAATA
ATGAAAAGAAACGGGGATTTTCAAGAAAATTGTAACCAAATTCATACTTTGTATAATTT
TTGATATCATGATCACAGGTGATTACACGTACACACATAAACACACCCACCAGTGCAGC
CTGAAGTAACTCCACAGAAACCATCATCGTCTTTGTACATCGTATGTACAATGCAATCA
TTTCATACTTTAAACTGGTCAAAAACTAATTGTGATTTCTAGTCTTGCAAAGCTGTATG
TAGTTAGATGATGTGACAACCTCTAATATTTATCTAATAAATATGTATTAGATGAAACC
TGTATATTAGGTGTTTCATGTGGTTATTTTGTATTTAAAGATCAAATTATTTGACTATTGC
TAGACATTTCTATACTCTGTTGTAACACTGAGGTATCTCATTTGCCCATGTTAATTTTTT
TCTAAATAAATTGAC

Gene 163. >ENST00000277788 cDNA sequence

GCGGCCGCCGCCGGCCGGGCCCCAAGCCCCGAGGGCGCCAGGGCGGGATCGCGACCGGT
GCAACTTCTAGCCTTGTTGTCTCCTGGTGCAGAGCTCGGCCGCTGCTGCTGCTCCG
ACATCAGAAGAGCCGCCAGAGCGATCCCCCTGGGAAACTCCCCATGCAGCCCCCTCTCAG
CTCCATGAGCTCCATGAAACCCACTCTGTGCGACAGTGATGGGTCTGTTCCCTATGACTC
TGTCCCTTGGCAGCAGAACACCAACCAGCCTCCCGGCTCCCTTTCCGTGGTCACCACGGT
TTGGGGAGTAACCAACACATCCCAGAGCCAGGTCTTGGGAACCTATGGCCAATGCCAA
CAACCCCATGAATCCAGGCGGCAACCCCATGGCGTCGGGCATGACCACCAGCAACCCAGG
CCTCAACTCCCCACAGTTTTCGCGGGCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGC
TCAGCCCTACATCCAGCAGAGCATGTATGGCCGGCCCAACTACCCCGGCAGCGGGGGCTT
TGGGGCCAGTTACCTTGGGGGTCTAACGCCCCCGCAGGCATGGGCATCCCTCCGCACAC
CAGGCCGCCTGCTGACTTCACTCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGC
AGCAGCAGCCACAGCTACAGCCACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACA
GAACAAGGATATAAACAGTATGGACCGATGGGTCCCACCCAGGCGTATAACAGCCAATT
CATGAACCAGCCCGGGCCGCGGGGGCCTGCCTCCATGGGGGGCAGCATGAACCCCGCGAG
CATGGCGGCTGGCATGACGCCCTCGGGGATGAGCGGCCCTCCCATGGGCATGAACCAGCC
CCGGCCGCCCGGCATCAGCCCTTTGGCACACACGGGCAGCGGATGCCCCAGCAGACCTA
CCCGGGCCCCCGGCCCCAGTCCCTTCTTATTGAGAACATAAAGAGGCCATACCCTGGAGA
GCCCAACTATGGAAACAGCAATATGGACCAAAACAGCCAGTTCCCCACCCAGCCAGGCCA
GTACCCAGCCCCCAACCCCCGAGGCCACTCACCTCCCCCAACTACCCAGGACAGAGGAT
GCCCAGCCAGCCGAGCTCCGGGCAGTACCCGCCCCCACGGTCAACATGGGGCAGTATTA
CAAGCCAGAACAGTTTAATGGACAAAATAACACGTTCTCGGGAAGCAGCTACAGTAACTA
CAGCCAAGGGAATGTCAACAGGCCTCCCAGGCCGTTTCTGTGGCAAATTACCCCCACTC
ACCTGTTCCAGGGAACCCACACCCCCCATGACCCCTGGGAGCAGCATCCCTCCATACCT
GTCCCCCAGCCAAGACGTCAAACACCCCTTCCCGCTGACATCAAGCCAAATATGAGCGC
TCTGCCACCAACCCAGCCAACCAATGACGAGCTGCGGCTCACATTCCCTGTGCGGGA
TGGCGTGGTGTGGAGCCCTTCCGCCTGGAGCACAACTGGCGGTGAGCAACCATGTGTT
CCACCTGCGGCCACGGTCCACAGACGCTGATGTGGAGGTCTGACCTGGAGCTGCAGTT
CAAGTGCTACCACCACGAGGACCGGCAGATGAACACCAACTGGCCCCGCTCGGTGCAGGT
CAGCGTGAACGCCACGCCCTCACCATTTAGCGCGGCGACAACAAGACCTCCCAAGCC
CCTGCACCTGAAGCACGTGTGCCAGCCGGGCGCAACACCATCCAGATCACCGTCACGGC
CTGCTGCTGCTCCACCTCTTCGTGCTGCAGCTGGTACACCGGCCCTCCGTCCGCTCTGT
GCTGCAAGGACTCCTCAAGAAGCGCCTCCTGCCCGCAGAGCACTGTATCACGAAAATCAA

FIGURE 1 (CONT'D)

GCGGAATTTTCAGCAGCGTGGCTGCCTCCTCGGGCAACACGACCCTCAACGGGGAGGATGG
GGTGGAGCAGACGGCCATCAAGGTGTCTCTGAAGTGCCCATCACATTCGGGCGCATCCA
GCTGCCTGCTCGAGGACACGATTGCAAGCATGTGCAGTGCTTTGATCTGGAGTCATACCT
GCAGCTGAATTGCGAGAGAGGGACCTGGAGGTGTCTGTGTGCAATAAAACCGCTCTGCT
GGAGGGCCTGGAGGTGGATCAGTACATGTGGGGAATCCTGAATGCCATCCAACACTCCGA
GTTTGAAGAGGTCAACATCGATCCACGTGCAGCTGGCGGCCGGTGCCCATCAAGTCGGA
CTTACACATCAAGGACGACCCTGATGGCATCCCCCTCCAAGCGTTCAAGACCATGAGTCC
CAGCCAGATGATCATGCCAATGTCTATGGAGATGATCGCAGCCCTGGGCCCCGGCCCCGTC
CCCCTATCCCCTCCCGCCTCCCCAGGGGGCACCAACTCCAACGACTACAGCAGCCAAGG
CAACAACACTACCAAGGCCATGGCAACTTTGACTTCCCCCACGGGAACCTGGAGGGACATC
CATGAATGACTTCATGCACGGGGCCCCCAGCTCTCCACCCCCCGACATGCCCAACAA
CATGGCCGCCCTCGAGAAACCCCTCAGCCACCCCATGCAGGAACTATGCCACACGCTGG
CAGCTCTGACCAGCCCCACCCCTCCATACAACAAGGTTTGACGTACCACACCCAGCAG
CCAGTCAGGGCCTCCATTACATCAGAGTGGGGCTCCTCCTCCTCCTTCCAGCCTCC
CCGGCAGCCGCCACAGGCCGCTCCCAGCAGCCATCCACACAGCGACCTGACCTTTAACCC
CTCCTCAGCCTTAGAGGGTCAAGGCCGAGCGCAGGGAGCGTCCGACATGCCGGAGCCTTC
GCTGGATCTCCTTCCGAACTCACAATCCTGACGAGCTCCTGTCTTATCTGGACCCCCC
CGACCTGCCGAGCAATAGTAACGATGACCTCCTGTCTCTATTTGAGAACAACCTGAGGGCC
ACCCGGTCGGGGCCATCCCTCCACACTCTGCATCCTACCCACCTACCCAACACACTTTT
CCACCTGGGAGCCTGTGCCCTCAGACCGCCCCGCACCAGAGCCACGGGCTGTGGGGCGGG
GAGCCCTCCCCCGCTGCAGCCCTCTCAGAACAGAGGGGTAGGGAGGGTGCACCAAGTGCAC
CAGGAAGGCTGTGTGGGTCTGGAGCCACGTCCACCTCCACACCCCTTGGCTTGGGCCCA
TGCCAGCGCAGGCCTGAAGACCACCTCCCGAGAGGAACAGCCCGGTAAGAGGGCACA
CGCTGATGCGGCTTCCCGGTCCCTCCGCGTGTGCCGATTCCAGATGACCTTCCAGTGTCC
CCAAGGTTCTTCCATCTTCTAGACTGTAAACCTGCCTCCCTGCTTCTGGTCCAGAGCCT
CCCTCCAGTGACTGTGGAGCCTGAGAAGGCCCCCGGGCCCCAGCATGGGCCCCGAGCCTT
GGAGGAGCACTGGCAGTTGGTGGCAGTGAGACCAGCCCCACCCACCCACCCACCCACAGA
AAAGCACAACCTCTGGGAAAGACAACGTCTCTCGGGGGCCAGGGGTATCGGTTTGACC
CCTGACCTATAAGCCAAGATACCCCATAAACACACTCAGAAAGCAGAGAAAAAGGACAAG
AGTCTGTGTTTGAGAGGGGGTCTGCCATTCTGTCTTGGGGACTGGTGGGGAAGAGGGCCA
GGACATCTTCTGAGCCAGGACGTCCCTGAGGCTCCACCTCCAAGCTCAGACAGGGCCCAG
GCTTGGGGAACAGAGAGAGCAGGTGTACCCCAACCAAGTGATTGTGCCCTTGGTTGGG
GGGCGCGGGCATATAACCTGTGAGAAGCAAAACAGGAGCGGCAACTTCTAACTTTGCTCCA
AGCCACTCTCTTTTTAAACAGCAACAATTTAAAGCTATGAAGTCACTGGAGAAAAGGAA
CGTTGCTCTTGGACAGCAAGCAAAACCATTTCTCTCCGTCTGTTCTGTTTTTCTCCTAGTC
CCTCTCCTGCCACCTCTCCAAGACTTCCGTGGGACACCCACTTCCCTCTGTCTAGTTCT
CTTTGTCCAATCAGATGGCAAGGGCAGTGCGTGGAAAGGCCGGGAGGTGCAGAAACCAG
AGCCCAGGGCAATGGTGTCTGTCCAGCCCCTCCCTCTGTCCCTGTGCTCCAAGCTGCCCC
CGGCTGCAGCCCAGGCCATGGACATGTGCACCAAGTATGTACCTGCAGGCATGGGGGGGAG
GGGGGCGTGTCTTCTGGGCCTGCCCCAGACACTGCCCTTGGCTGCCAGCCTACCCTGCCTG
CACTCCTCCACCATCACAATCTCACCCAAACTCCTGCTCACTCAAGCAAAAGCAGCCTCT
GGCCTTCCCTCCACCGCTTTGCTCCATCTGGCTTACCACTCTCCAGGGCCTCCTGGGGAG
CCTGTCTGTGTTCACTTTGTTTCAAGGCTGGTCTGTGCCCCGTGAGCCACATGGCCTAGG
GTGATGCCAGGTTGTCCCGTCACTGGGGTCCCCTCTGTAAATTCTTTGCGCCCTTCCCGG
CTGCTGCCTGGGGCCCTTTCTGTCTCTCCCGTCCGCTGTGGGTGGTCCCCAGCTCTCCTC
TGTGGGTTTTTACCGGAAAGGTGGCCCCAGCTGTTGACTTCCAGTCACTGTCCAGACGGC
ACAAGGTTTTTCTGTAGGAAAGCTGCCATTGCCCGGCCCCCTTTTCTTCTTGTCCCGTT
GTCGAGGTTTTTTCAA

Gene 164. >ENST00000260896 cDNA sequence

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGGAACGACACCGTAACTATCC
GCACTAGAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCC
TTCACCCCGGGAAGGCGACAGTGCCTAAGACAGAAATTCGGGAAAACTAGCCAAAATGT
ACAAGACCACACCGGATGTCACTTTGTATTTGGATTTCAGAACTCATTTTGGTGGTGGCA
AGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCA

FIGURE 1 (CONT'D)

AACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAA
AGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTG
GCAAAAAGCAGAAATGAAGTGTCTAGCAGGTGAGCTGGAGATTGGATCACCAGCCGAAGG
AGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTTCGCAAGAACATTAA
TAAACTAAAACTTCATGTG

Gene 165. >ENST00000277783 cDNA sequence

GGCGAGTCCAGAAGCAGCCCCAGGAGGTGCTGGGGGCATCGTTTCTCTAATCTGGCCTCC
CGAGTGCCAAGGAGGCGTCCCGGCAGCGGTCAATCATGGTGAAGGAGCAGTTCCGGGAGAC
GGATGTGGCCAAGAAAATAAGCCACATCTGTTTTGGAATGAAGTCACCTGAGGAGATGCG
CCAGCAGGCGCACATCCAAGTTGTGAGTAAGAACCTGTACAGCCAGGACAACCAACATGC
CCCCTTGCTATATGGGGTGCTCGACCATAGGATGGGTACGAGTGAGAAGGATCGTCCATG
TGAAACCTGTGGGAAAACTTGGCTGACTGTCTAGGCCACTATGGGTATATCGACCTGGA
GTTGCCGTGTTTTTCATGTAGGGTACTTCAGAGCAGTCATAGGCATCTTACAGATGATCTG
CAAAACCTGCTGCCACATCATGCTGTCCCAAGAGGAGAAGAAGCAGTTTCTGGACTATCT
AAAGAGGCCCCGGCCTGACCTACCTTCAGAAGCGAGGACTGAAAAAGAAAATCTCTGACAA
GTGCCGGAAGAAAAACATCTGCCATCACTGTGGCGCTTTTAATGGTACCGTAAAGAAGTG
TGGACTGCTGAAAATAATTTCATGAGAAATACAAGACCAACAAAAAGTGGTGGATCCCAT
TGTATCAAATTTCTTCAGTCTTTTGAAACAGCCATTGAACATAATAAAGAAGTGGAGCC
TCTGCTGGGAAGGGCACAGGAAAACTTGAATCCCTTAGTAGTTCTGAATTTATTTAAACG
AATCCCAGCTGAAGATGTTCTCTACTTCTGATGAACCCAGAAGCCGGAAGCCGTCTGA
TTTGATTCTCACACGACTTTTGGTGCCTCCTTTGTGTATCAGACCCTCCGTTGTGAGTGA
TTTGAAAGTCTGGCACCAATGAAGATGATCTGACAATGAAACTGACAGAAATCATTTCCT
AAACGATGTTATTAAAAAGCATCGGATCTCAGGAGCCAAGACCCAGATGATCATGGAGGA
CTGGGATTTCTGTCAGCTGCAGTGTGCCCTCTACATTAACAGTGAGCTCTCGGGCATTCC
CCTCAACATGGCACCCAAGAAGTGGACCAGAGGCTTCGTCCAACGCCTGAAGGGAAAAACA
GGGTTCGATTTAGAGGAAATCTCTCAGGAAAGAGAGTGGATTTTTCTGGCAGAACAGTCAT
CTCGCCCCGACCCCAACCTCCGGATTGATGAGGTAGCTGTGCCAGTTCATGTGGCCAAAAT
TCTAACTTTTTCTGAGAAGGTAAACAAAGCAAACATCAATTTCTTGAGGAAACTGGTTCA
AAACGGCCCTGAGGTTTCAACCCAGGAGCAAACCTTCATTTCAGCAGAGACATACGCAGATGAA
AAGGTTTTTGAAATACGGAAATCGAGAAAAGATGGCTCAAGAGCTCAAGTATGGTGACAT
CGTAGAGAGACACCTCATCGATGGAGATGTGGTGCTGTTCAATCGGCAGCCCTCGCTGCA
CAAATTGAGCATTATGGCTCATCTGGCCAGGGTCAAGCCCCACCGGACCTTCAGATTTAA
TGAGTGTGTCTGTACACCCTATAATGCTGACTTTGATGGTGATGAAATGAACCTTCATCT
TCCTCAAACAGAAGAAGCTAAAGCAGAGGCCCTTGTTCTGATGGGGACTAAAGCAAATCT
TGTAACCCCGAGGAATGGGGAACCGCTGATTGCTGCTATTTCAGGATTTTCTAACAGGTGC
CTATCTCCTCACTCTCAAGGACACTTTCTTTGATCGAGCCAAGGCTTGCCAAATCATTGC
TTCAATACTGGTTGGCAAGGATGAGAAAATTAAAGTTTCGCCTCCCACCGCCTACAATCCT
AAAGCCTGTCAACCTGTGGACGGGAAAGCAGATCTTCAGTGTCACTCCTCAGGCCTAGCGA
TGACAATCCAGTGAGGGCCAACCTGCGAACCAAGGGCAAGCAGTACTGTGGCAAAGGGGA
AGATCTCTGTGCCAATGATTCTATGTTACAATCCAGAACAGTGAGTTGATGAGTGGCAG
CATGGACAAAGGAACCTAGGGTCAGGATCCAAGAACAAATATTTTTTACATTTTGCTGCG
AGACTGGGGACAGAATGAAGCTGCAGATGCCATGTACGGCTCGCCAGGCTGGCTCCTGT
CTACCTGTCTAACCGTGGTTTTCTCAATTGGGATCGGTGATGTACACCTGGCCAAGGACT
GCTGAAGGCCAAGTATGAGTTGCTGAATGCCGGCTACAAGAAATGTGATGAGTACATCGA
AGCCCTGAACACGGGCAAGCTGCAGCAGCAGCCTGGCTGCACTGCTGAGGAGACCCTGGA
GGCACTGATCCTGAAGGAGCTGTCTGTGATCCGTGACCACGCTGGCAGTGCCTGCCTCCG
GGAGCTGGACAAGAGCAACAGCCCCCTCACCATGGCTCTGTGCGGCTCCAAAGGTTCTTT
CATTAAACATATCACAGATGATTGCCTGTGTGGGACAGCAGGCCATCAGTGGCTCTCGAGT
GCCAGACGGCTTTGAAAAAGGTCCTTGCCCTCATTTTGAAAAACACTCAAAGCTCCCAGC
TGCCAAAGGCTTTGTGGCTAATAGCTTTTATTCCGGTTTGACACCAACTGAGTTTTTCTT
CCACACAATGGCCGGCCGGGAAGGTCTAGTCGACACGGCTGTAAAGACAGCTGAAACGGG
ATACATGCAGCGAAGGCTTGTCAAATCTCTTGAAGATCTTTGCTCCAGTATGATCTGAC
AGTCCGAAGCTCTACTGGCGATATTATCCAGTTCATTTATGGAGGAGATGGCTTAGATCC
TGCAGCTATGGAGGGAAAAGATGAACCTTTGGAGTTTAAAAGGGTTCTGGACAACATCAA

FIGURE 1 (CONT'D)

AGCAGTCTTCCCGTGTCCAGTGAGCCTGCTCTCAGCAAAAACGAGCTGATCCTGACCAC
 AGAGTCCATCATGAAGAAGAGTGAGTTCTCTGCTGCCAGGACAGCTTCCTGCAGGAAAT
 AAAAAAATTCATTAAGGGGGTCTCTGAGAAGATCAAGAAAACAGAGATAAATATGGCAT
 CAATGATAACGGCACAACAGAGCCCCGTGTGCTGTACCAGCTGGACCGCATCACCCCCAC
 CCAAGTAGAAAAGTTTTCTGGAGACCTGTAGGGACAAGTACATGAGGGCACAGATGGAGCC
 AGGTTCTGCAGTGGGTGCTCTGTGTGCCAGAGCATTGGTGAGCCAGGCACCCAGATGAC
 CCTGAAGACTTTTCCACTTTGCAGGTGTGGCCTCCATGAACATCACCTGGGCGTGCCCCG
 GATTAAAGAGATCATCAACGCTTCCAAGGCCATCAGCACTCCAATTATCACAGCACAGCT
 AGACAAGGATGACGACGCGGATTATGCTCGCCTCGTGAAAGGGAGAATTGAGAAAACCTT
 CTTGGGAGAGATTTCCGAGTATATTGAAGAAGTGTTCCTTCTGATGACTGCTTTATTCT
 CGTCAAGCTCTCCCTGGAACGGATTAGGCTTCTGAGACTGGAAGTGAACGCTGAGACAGT
 GAGATATTCCATCTGCACATCCAAGCTCCGTGTGAAGCCCCGGTGATGTGGCTGTTTATGG
 TGAGGCTGTGGTGTGTGTCAACCCAGAGAGAACAGCAAGAGCTCCATGTACTACGTGCT
 GCAGTTCCTGAAAGAGGATCTCCCCAAGGTGGTGGTGCAGGGCATTCCAGAGGTGTCCAG
 AGCTGTCTATCCACATTGACGAGCAGAGTGGAAAGGAGAAGTACAAGCTTCTGGTGGAAGG
 TGATAACCTGCGGGCAGTCATGGCCACACACGGTGTGAAGGGCACCCGAACCACTCCAA
 TAACACCTATGAGGTGGAGAAAACCTCTGGGCATCGAGGCCGCCCGGACAACGATCATCAA
 TGAAATCCAGTACACCATGGTGAACACGGCATGAGCATCGACAGGAGGCACGTGATGCT
 GCTCTCCGACCTCATGACCTACAAGGGTGAAGTCTTGGGCATCACTAGGTTTGGCCTGGC
 CAAGATGAAGGAGAGTGTGCTGATGCTGGCCTCCTTTGAGAAGACGGCTGACCATCTCTT
 TGACGCTGCCTACTTCCGGGCAGAAGGACTCTGTGTGTGGGGTGTCTGAGTGCATCATCAT
 GGGAAATCCCAATGAACATTGGAACCGGGCTCTTCAAGCTGCTTCACAAGGCTGACAGGGA
 CCCGAACCTCCCAAGAGGCCCTGATCTTCGACACAAATGAATTCCACATCCCCCTTGT
 CACATAGTCCAAAGAAAGAGGGGACCATGCCTGACCTTGACTCCTTGTCTCTCCAGC
 TGATGTATAAAGAGTTTTGTGCTCCCTGGGACGGGGTCTGAGGTCCCCACCTATGCCA
 GCAATCAGAGAAGCCCTCTTGGCATCCCCAGGAGCAGCTTCTCCTCTGATAGGGTGCAGC
 TCACACCAGTGACCCTGACTGTGCCACGCTGCTCGGGAGAGCTGAGGGTTTTATTGTTTG
 CTTGCTTGAACCTAATCTATAGACGGCCCCACAGCTCGTGCACACACTGCTTCCCTGGA
 CTTAAAGCCCAGCCAGGTGTATGGTCCATCCCAGCTCACTGCATACATCCATCGGCTCC
 CCATGGTGTCTTCACACCTGACGATGAGCCAGGCCTGAGCCCCACACAGGCCAGGGCACA
 TTCTTGGATTTTCCATTCTTGGTCTGCTGGAATCTCTCAATGTGACATACTTATGTAA
 ATATTGTTACTATTATTTATTTGTTCCATTTGAGGGATTGGAATTTTTGTTATTTTAGT
 TTTATTTTTTGAACCAAGCATCTATAGAAACCAAGAAAGTCAGCATGTAAGCGTCACTGG
 AAAAAGTGGTTTAAAGCAAATAGAGCCGTCTGGGATTGTAACTGAGGTGCAACTGTCTATG
 AGGCCAGGCAGCTCTGTAACATCTTCTATAGATGCCCTGGCTACCCTGTTGTTTTTCT
 CTACCTCAGACCCCTATCATGGGGCTCTACCCTGTGACAAGAGCCAAACCCATTCTCCAT
 GGCCTATGGAAGCCTCACTGGAGTTTGGGGCCTGCTGCAATGGGGATGAGATGGTTTTTT
 GTAGAATTATACTTACGTTCTTGGATGATCTCTAGTTGATTTTTTAAGTTCTGAGTTGA
 TGCTGTTAAGGTACCCGGGGTAGCCATTGGTCTTGGATCTGTGTTAGAATGAGTGCTTT
 CCCTTCTACTGATGTGATTGTGGATTAGGAATTCGTGACCGAGTGATTTTTGGCCAGTG
 GTTGGGTTTAAAATTCTATTTAAATTTGTAGTTTGGGC

Gene 166. >ENST00000299432 cDNA sequence

TTTCACTTGGAGGAAAGAGAGAAGGAAGGAAGCTGAGGACTTAGCAGGGTATCACTGGAC
 AGGCCATGGCTCCACGGTCCCGGCACGAAGGCACAAGAAACCTCCCTCATCAGTGGCTC
 CCATCATCATGGCCCCAACCACAATTGTGACCCCTGTGCCTCTGACCCCTCAAAACCTG
 GCCCTAGCATTGACACACTTGGCTTCTTCTCCTTGGATGATAATGTTCTTGGCCTATCGC
 AGCTGATCCTTCAAAAGCTGAACATGAAAAGCTATGAAGAATATAAGTTGGTGGTAGATG
 GGGGTACCCCGTATCAGGCTTTGGATTTGATGTCTCAAGAAATGTTCCAGAGGATGG
 AAGACACATTTGATTCTGTGCTCACTGTAGAGCACTCCCTAGTGGGCTTTCAGACTCCA
 AGGTTCTCCGGCACTGTAAGAGGTGCAGAAATGTCTATTACTGTGGTCCAGAGTGCCAGA
 AGTCAGACTGGCCCGCACACAGGAGGGTTTGTCAAGAGCTTCGTCTTGTGGCTGTGGACC
 GTCTCATGGAATGGCTTCTGGTCACAGAGCACCTCAACTTCACCCCTGGAACCTGGCACA
 ATTCACTTAGTGCCACAGGGGCCTCTACCATGACTTCTGGGAGGAGCAAGTAGAGACC
 GGGCAGACACACCATCCAGATTTGGTGGCGGCATTCCATCCAGGTTTTTCACTTCTCCCCA

FIGURE 1 (CONT'D)

GACTTGATGGAGGCTTGGCTGCCACCCCTGCTGCTACTTCGTGACTATAAGATTCTCTACA
 TTGATTACTGTTTACAGCCATCAGGAGTTGGTATCCTCTTTGCAGATTCTGGTGGAAGTG
 GATACACACATCACTGCCTTTGGGTCTAATCCTTTTCATGTCCCTCAAACCTGAACAGGTC
 TATTCCAGTCCCAACAAGCAGCCAGTATACTGCAGTGCATACTATATCATGTTTCTTGGA
 AGCTCCTGTGAGCTGGATAATAGGCAATTAGAAGAGAAAGTGGACGGCGGGATTTAAATA
 GATCATAACTGGACATCTGGAACCGGGGAGTTTGTGATGAAATTACCCTGCTAATGCCA
 GGTTCTTGCAAACCTTTGAAAAACATTATATTCTAAACCTCATTTACTGTTTGGGTAAAAA
 TTCTAAGCTGAATGAGAGTTTCTGTATAACATAACTGGTTTCTTTCTTTTTTTGAGATGG
 AGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGCGGCATGATCTCGACTCACTGCAGCCTC
 CGCCTCCTGGGTTCAAGTGGTTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATTACAGGT
 GCACACCACACACCTGGCTAATTTTTGTATTTTTAGCAGACAGGGTTTCACCATGTTGG
 CCAGGCTCGTATCAAACCTTGACCCAGGTGATCTGCCTGCCTCAGCCTCCCAAAGTTC
 TGGGATTACAGGCATGAGCCACCATGCCAGCCAATGTAAGTGGTTTCTAAGAGTTTAGC
 CACAGTAGCTTCTAGAGATAGGAAATTAGATTTAGTGGGTGGGAAGAGGCCCTGATGCTG
 GTCTTTCCAGAGCTTATAGTTGCTAACACTTTTCTTTGTAAAGAAGTTTACCTTTTGACT
 GGAACCAGATGGCACTGAGAAAAAGAATGAGAACCACTTATTCTTCTGAAAAAGACTTT
 CTTCTCATCCAGTAATTTGGGCTAAAAAATGGAAAGATGTTGATGACTTGAAGTGATGCA
 AGAATGGACAAGTCAGGGAAGTCATTGGGAACATGGATGAGGTTGTAAGCATTGGTACAG
 TGTCTGTTTTCTGACTTTTTTTGAGAGAAATGTCTACTTTTCTGTTTTCTCTTGGGGAC
 TTTTGACCCTAGAGTAGCCCTGGTGTATATTTTAGATATCCCAAGCTATATCAGACTTT
 ACCTGAATATACTGGAGTTACTTATTATCCCCATTCTATACCCAATAAACTCAGTTTG
 GGGCTTCTT

Gene 167. >ENST00000286621 cDNA sequence

GAAGAGGGGGCGGGACCAGAGAGTGGATGGCAGAGGTGGGCTGTAGAGCCAAAGTGGGGT
 GGGAGCGCGAAGATGGCAGCTGCTGAGGAGGAGCCGAAGCCCAAAAAGCTGAAGGTGGAG
 GCGCCGCAAGCGCTGAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATC
 TCTGCTGTAGTGGACAAAGATTTTCTTGATAAGTATTCTCTGAAACCAAATGACCAAATC
 TTGGCTGAAGACAAACACAAGGAAGTGTGTTGATGAACTTGTGAAAAAATTCAAAGTCGAA
 TATCATGCTGGTGGCTCTACCCAGAATTCAATTAAAGTGGCTCAGTGGATGATTCAACAG
 CCACACAAAGCAGCAACATTTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTG
 AAGAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCA
 ACAGGAAGTTGTGCTGCATGCATCACTGGTGACAACAGGTCCCTCATAGCTAATCTTGCT
 GCTGCCAATTGTTATAAAAAAGGAAAAACATCTTGATCTGGAGAAAAACTGGATGTTGGTA
 GAAAAAGCAAGAGTTTGTATATAGCAGGCTTTTTTCTTACAGTTTCCCCAGAGTCAGTA
 TTAAAGGTGGCTCACCATGCTTCTGAAAAACAACAGGATTTTCACTTTGAATCTATCTGCA
 CCGTTTATTAGCCAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTTATGTTGATATA
 CTTTTTGGAAATGAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAA
 GACATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAG
 CGAATCGTGATCTTCAACCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTC
 ACTGCTTTTGCTGTCTTGATCAAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGA
 GATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGT
 ATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCACCTTTTCTT
 GAGAAGCCAGACTTCCACTGA

Gene 168. >ENST00000330453 cDNA sequence

GGTAGTGGCGGGTCGGCAAGGCACAGCACACGACCTGGTGGACCAGCCACTGGGAACAAT
 GAGTCTATGGTGGCCAAATCCAGCCTTGTCTCCACTTTGTCAAGGGACAATTTCAAGAG
 TACCAGGAGAGCATAATCAGAGCAGCCTTCCTTACACAGACTGTCTGCTTAGACGACACA
 ATAGTCAAGTTTGAGATCTGGGGCAGCGCTGGACAGGAGCGGTATCATAGCCCAGCCCCC
 ATGTACTATGAAATCACCAAAAAAGATACATTTGCACCAGCCAAGAAATGGGTGAAGGAG
 CTAGAGAGGCAGGCCAGCCCCAACATTGTCACTGTACTTGTGGGTAAACAAGGCAGACCTG
 GCCAGCAAGAAAGCCCCAGAATTCCACGAAGCACAGGACTATGCAGACGACGACTTGACT
 ATGGAGACATCAGTAAAGACTGCAATGAACGTGAATGAAGTTTACACGGCGAGAGCTAAG
 AAGATTCTAATAAGCCCCAGAGTGCACCTGGTGTCTCCAGGCCAAAACTGA

Gene 169. >ENST00000277847 cDNA sequence

FIGURE 1 (CONT'D)

AGGTCACCTGGAAGGACTGAGCGCATTTCAGGAGCCTGGAGGAACTCATCTTGGACAACAAT
CAGCTGGGGGACGACCTTGTGTTGCCAGGGTTACCCAGACTGCATACCTTAACCCCTCAAC
AAGAACCGAATAATTCTTAACCTTTGTACATCACTGATTTGGAGAACCTGCTGGATCAC
TTGGCAGAAGTGACACCAGCTCTGGAGTACCTCAGTCTGCTGGGCAACGTGGCCTGTCCC
AACGAGCTGGTCAGCTTGGAAAAGGATGAGGAAGACTACAAGAGATACAGATGCTTTGTT
CTGTACAAGCTGCCCAACTTGAAATTTCTGGATGCCAGAAAGTAACCAGACAAGAACGA
GAGGAGGCGTTGGTCAGAGGAGTCTTCATGAAGGTGGTGAAGCCCAAG

Gene 170. >ENST00000313314 cDNA sequence

GGCGCCGTTTTCCAGTTGAGAGATGGCGGCCCGCGAGGTAGATCGCTCCTGCTGCTCCTC
TCCTCTCGGGGCGGCGGCGGCGGCGGCGGCGGCTGCGGGGCGCTGACTGCCGGCTGC
TTCCCTGGGCTGGGCGTCAGCCGCCACCGGCAGCAGCAGCACCACCGGACGGTACACCAG
AGGATCGCTTCTGTCAGAAATTTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTCTGAT
GATGTTACAGTGGTTTTATCAAAATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGG
CGTGAACGCTGTCACTTCACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTTACGA
CAACTGCAAGAAGAGGATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGT
CGCGTTGCTGCTTCAACAGGAATAGACCTCCTCCTCCTTGATGACTTTAAGCTGGTCATT
AATGACTTAACATACCACGTACGACCACCAAAAAGAGACCTCTTAAGTCATGAAAATGCA
GCAACGCTGAATGATGTAAAGACATTGGTCCAGCAACTATACACCACACTGTGCATTGAG
CAGCACCAGTTAAACAAGGAAAGGGAGCTTATTGAAAGACTAGAGGATCTCAAAGAGCAG
CTGGCTCCCCTGGAAAAGGTACGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACT
TTGGTGTATGGGGTGGCCTTGCCCTACATGGCCACACAGTTTGGCATTTTGGCCCGGCTT
ACCTGGTGGGAATATTCTGGGACATCATGGAGCCAGTAACATACTTCATCACTTATGGA
AGTGCCATGGCAATGTATGCATATTTTGTAAATGACACGCCAGGAATATGTTTATCCAGAA
GCCAGAGACAGACAATACTTACTATTTTTCCATAAAGGAGCCAAAAGTCACGTTTTGAC
CTAGAGAAATACAATCAACTCAAGGATGCAATTGCTCAGGCAGAAATGGACCTTAAGAGA
CTGAGAGACCCATTACAAGTACATCTGCCTCTCCGACAAATTGGTGAAAAAGATTGATCT
GCAAAAAGCCTCTGAATCCTGGCAGAAGGAACACCTGTTTGCCTTTTTAATTAAAGCATT
GCAGGTGGAAGCTGGGAGCCATGTGGGGGGTAGAGCGTTTTTACCTTTAATTATAAAACA
AAAACAGAAAGGATCTGAGGGAAGAAGGGAATGTTAAACCTGAGGATCAGGCATTGTGG
AATATAAGCTCAAAGGGCTTAGTGAATATTGTCTTAACCAAGTATCTCAGTTTCTGGATG
AAAATGATGCAGTTATATAGTTGAGAGATTCTAAAGAGAAAACAATGCTGGGGGTGTTT
GTTTTCTTGCACTTCTTTTGCAAGTCAAGAAAAGAGTAACACACCAGCACCCCACTCGAC
TCTATTTGTTTTTAATTTAACTGTCCCTATTTTTTGACATAGGAGTAAATAAATATACTAG
AAAAGCAAATTTCTCATGATATGCTAAAATATCATTAGCATTATTTTTAAATTGGACCCAG
TCTCTGCAGAGTTACCAGGAATCTTTCCTTCCAGCATCCCTTTACTGACCACCTACCTGT
ACCTCTTGGTTACACTCATTTTTTCCATTTGATAATTGGAACCAACTTATAACTGTTTAA
TAATTGACACTTTAGATTATCTCTTAATACCTTCTTAAATGTCTATATATCCAGTGCTC
TGGATCAGTGTCTAAAAATCACTGGCAACACTGCATGAGGTTGTTGGTTTTGTTTTGTTT
TATTAATTAGTCTTTCACAGGAGGAATAATTGCCCTCCTTTATATACTTATCTATTGATA
ATCCCTCTCCCTCCAGAACACAAATCAGAGGGAAAGGGGGTGTTCAGCTGTACTACCAA
ATCAGGAAGATGTAAGGTTTACAAATTGGCTAAGAATCATGGCTCTGTAGCCATTTCAAC
CAGAATAATTTTTATTGCTAATCTGCTTTGTGTGACAGCATTCCAGGCCAGCCAGATGGGA
CTGCCTTGTCTGGAGGCTTTGTTTCATCTCGAAGGACACACACTTCCACACTGTTTGTGAG
CCCTCCACCTCCACAACTTCAGTTGTAAATCAAGTGTGTGGATCTCAAAGGGTGAATT
TATCTTTATATAGGAATACATTTCTAGGGCTTCTTCAAGCCCACTCTCTTCACCCCTATT
TTTTCTTATCTTAAATTGAGAGAAAGAGAATTAATCTTATACTTTGTCAAAACATTTTCT
ACCATATTTCCAGATGACATCTGCGCTTGAAGAGTCAAAGGAATCTGTGTCTAATATCCT
GTTTTTAACTGCTGTAGGGGAGGATGGAAGGATGATGGGGGCTGCCACACCACTGATT
GGCCTTTTTCTTTCACGTGATTTCATCCTTCTCATTGTGGCAAGGAGTTTCTTCTCTTTT
TCTTCTCCTTTGGGATCATTGTGTATGAAAAGAAAACTTTAAATGACAAACCCAGACT
CCAGGTGCCTTGCAAGGTTGAAGGCCAGCCAGGATTGCTGCTGCTGCTGCTACTCCTGC
CAACACCCCTTTCAATTGGCATGACGGAATGAAAGGATGCATGTCTCCTTCTGACCCCT
CCGCCCCTTCTTCTCCCTCCACCACCCCCAGTCGTCAGCTCCTTCCCTCATTTATTTT
TGTTAAGTTGTGTGAATTATTTTAAACCATTTATCCTGTTTGTGCATAGGGTTTTTAAG

FIGURE 1 (CONT'D)

AAGAAACAGCACAGTGCACGAGCAAATCTTTTTGGGGTGTGTGGGAAGCAAGGGAGGGG
GGACATGGAGAAAAGTTCTTTAAACAAATAGCAAACCTATTGAACATGTGTAAATCCTGT
ATCATTATGAAATATGTATAAAAAGCAATGTACCTTCTGGAACAATAAATACCTTATTCA
ATTTTTG

Gene 171. >ENST00000286508 cDNA sequence

AGTTGTAGAGATGGCGGCCGCCGCGGCGAGGTAGATCGCTCCTGCTGCTCCTCTCCTCTCGGGGCGCGCGCGCGGGGGCGCCGCGCGGCTGCGGGGCGCTGACTGCCGGCTGCTTCCCTGGGCTGGCGTCAGCCGCCACCGGCAGCAGCAGCACCACCGGACGGTACACCAGAGGATCGCTTCCGGCAGAAATTTGGGAGCTGTTTATTGTCAGCACTGTTGTGCCCTCTGATGATGTTACAGTGTTTATCAAAATGGGTACCTGTGATATCTGTGAGGCTACCATCCCGCGGTGAACGCTGTCAGTTCACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTTACGACAACTGCAAGAAAGGATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGTTCGCGTTGCTGCTCAACAGGAATAGACCTCCTCCTCCTTGATGACTTTAAGCTGGTCATTAATGACTTAACA TACCACGTACGACCACCAAAAAGAGTAGAGATGGGGTTTTGCCATGTTGGCCAGAATGGTTTTGAACCTCTGACCTCAAGTTATCTACCTGCCTCAGCCTCCCAAAGTGCCGAGATTATAGCCGTACGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACTTTGGTGCTATGGGGTGGCCTTGCTACATGGCCACACAGTTTGGCATTTTGGCCCGGCTTACCTGGTGGGAATATTCCTGGGACATCATGGAGCCAGTAACATACTTCATCACTTATGGAAGTGCCATGGCAATGTATGCATATTTTGTAAATGACACGCCAGGAATATGTTTATCCAGAAGCCAGAGACAGACAA TACTTACTATTTTTCCATAAAGGAGCCAAAAGTCACGTTTTGACCTAGAGAAAATACAATCAACTCAAGGATGCAATTGCTCAGGCAGAAATGGACCTTAAGAGACTGAGAGACCCATTA CAAGTACATCTGCCTCTCCGACAAATTGGTGAAAAAGATTGATCTGCAAAAAGCCTCTGAATCCTGGCAGAAGGAACACCTGTTTTGCCTTTTTAATTAAAGCATTGCAGGTGGAAGCTGGGAGCCATGTGGGGGGTAGAGCGTTTTTACCTTTAATTATAAAACAAAACAGAAAGGATCTGAGGGGAAGAAGGGAATGTTAAAACCTGAGGATCAGGCATTGTGGAATATAAGCTCAAAGGGCTTAGTGAATATTGTCTTAACCAAGTATCTCAGTTTCTGGATGAAAATGATGCAGTTATATAGTTGAGAGATTATATAAAGAGAAAAACAATGCTGGGGGTGTTTCGTTTTCTTGCACTTCTTTTGACAGAGTCAGCAAAAGAGTAACACACCAGCACCCCACTCGACTCTATTTGTTTTTAA TTTAACTGTCCCTATTTTTTGACATAGGAGTAAATAAAATATACTAGAAAAGCAAATTTCTCATGATATGCTAAAATATCATTAGCATTTATTTTTAAATTGGACCCAGTCTCTGCAGAGTTAC CAGGAATCTTTCTTCCAGCATCCCTTTTACTGACCACCTACCTGTACCTCTTGTTTACAC TCATTTTTTTCATTTTGATAATTGGAACCAACTTATAACTGTTTAAATAATTGACACTTTTAGATTATCTCTTAATACCTTCTTAAATGTCTATATATCCAGTGCTCTGGATCAGTGTCTAA AAATCACTGGCAACACTGCATGAGGTTGTTGGTTTTGTTTTGTTTTTATTAATTAGTCTTTCACAGGAGGAATAATTGCCCTCCTTTATATACTTATCTATTGATAATCCCCCTCTCCCTCC AGAACACAAATCAGAGGGAAAGGGGGTGTTGAGCTGTACTACCAAATCAGGAAGATGTAA GGTTTACAAATTGGCTAAGAATCATGGCTCTGTAGCCATTTCAACCAGAATAATTTTTATTGCTAATCTGCTTTGTGTGACAGCATTCCAGGCCAGCCAGATGGGACTGCCTTGTCTGGAG GCTTTGTTTCATCTCGAAGGACACACACTTCCACACTGTTTGTGAGCCCTCCACCTCCAC AACTTCAGTTGTAAATCAAGTGTGTGGATCTCAAAGGGTGCAATTTATCTTTATATAGGA ATACATTTCTAGGGCTTCTTCAAGCCCACTCTCTTACCCTATTTTTTCTTATCTTAAAT TGAGAGAAAGAGAATTAATCTTATACTTTGTCAAAACATTTTCTACCATATTTCCAGAT GACATCTGCGCTTGAAGAGTCAAAGGAATCTGTGTCTAATATCCTGTTTTTAACTGCTGT AGGGGCAGGATGGAAGGATGATGGGGGCTGCCACACCACTGATTGGCCTTTTCTTTTTCAC GTGATTCACTCCTTCTCATTGTGGCAAGGAGTTTCTTCTCTTTTCTTCTCCTTTTGGG ATCATTGTGTATGAAAAGAAAACTTTAAATGACAAACCCAGACTCCAGGTGCCCTTTCGCAAGGTTGAAGGCCAGCCAGGATTGCTGCTGCTGCTACTCTCCTGACCCACACCCCTTTTCAT TGGCATGACGGAATGAAAGGATGCATGTCTCAACTCTCTGACCTCCGCCCACCTTCTTTC TCCCTCCACCACCCCAAGTCTGCTGAGTCTCTTCCCTCATTTATTTTTGTTAAGTTGTGTGA ATTATTTTTTAACCCATTTATCCTGTTTGTGTCATAGGTTTTTTAAGAAAGAAACAGCACAGT GCAACGAGCAAATCTTTTTTGGGGTGTTGGGAAGCAAGGGAGGGAGGACATGGAGAAAAG TTCTTTAAACAAATAGCAAACCTATTGAACATGTGTAAATCCTGTATCATTTTATGAAATA TGTATAAAAAGCAATGTACCTTCTGGAAACAATAAATACTTATTTCAATTTTTTG

Gene 172. >ENST00000298482 cDNA sequence

FIGURE 1 (CONT'D)

ATGACCCAGCCGGTGCCCCGGCTCTCCGTGCCCCGCGCTGGCCCTGGGCTCAGCCGCA
CTGGGCGCCGCTTCGCCACTGGCCTCTTCCTGGGGAGGCGGTGCCCCCATGGCGAGGC
CGGCGAGAGCAGTGCCTGCTTCCCCCGAGGACAGCCGCTGTGGCAGTATCTTCTGAGC
CGCTCCATGCGGGAGCACCCGGCGCTGCGAAGCCTGAGGCTGCTGACCCTGGAGCAGCCG
CAGGGGGATTCTATGATGACCTGCGAGCAGGCCAGCTCTTGGCCAACCTGGCGCGGCTC
ATCCAGGCCAAGAAGGCGCTGGACCTGGGCACCTTCACGGGCTACTCCGCCCTGGCCCTG
GCCCTGGCGCTGCCCGCGGACGGGCGCGTGGTGACCTGCGAGGTGGACGCGCAGCCCCG
GAGCTGGGACGGCCCCCTGTGGAGGCGAGGCCGAGGCGGAGCACAAGATCGACCTCCGGCTG
AAGCCCGCCTTGGAGACCTTGGACGAGCTGCTGGCGGCGGGCGAGGCCGGCACCTTCGAC
GTGGCCGTGGTGGATGCGGACAAGGAGAACTGCTCCGCCTACTACGAGCGCTGCCTGCAG
CTGCTGCGACCCGAGGCATCCTCGCCGTCCTCAGAGTCCTGTGGCGCGGGAAGGTGCTG
CAACCTCCGAAAGGGGACGTGGCGGCCGAGTGTGTGCGAAACCTAAACGAACGCATCCGG
CGGGACGTCAAGGTCTACATCAGCCTCCTGCCCCCTGGGCGATGGACTCACCTTGGCCTTC
AAGATCTAG

Gene 173. >ENST00000321905 cDNA sequence

GAATCACTCCGACCCCCCACCTCCGCCCAGATCCCGAGAAAAAGAAAGCCCTAGGGTGG
CAGCCAGGGTAGTGGTCCAGTGCGATCCAGAGAGAGGGTCTTACCTCGATGGGGCTGA
CCGGCGTGGAAGGCAGGGGCTGCAGGTACTCGGGGTGCAAAATGTGGCCAGTTTCGTGCCG
TCAGCATCTTCAGCACCTTGATTGGCAGGCGGTTGGCCTGGCGCAGGGGGTCAAGAGGGG
GCACGGCGTGCAAAAAGGCTTGGTGCTGCCGCCGGGGACGAGCCTGGGCCGGGGCCGG
AGCTATTTCCAGAGAGCGCGTGGTCCAGGCAGGGTCTGCACCGCCGCTCCGCCTCCGC
CGCCGCCGCCCGCTGTGCTTACTGCTTCTTAGGGCAGAAAGCGAGGGCGCTGTGCTCA
TGACCCACCCGCGCGCATGGGAGCAGCGGGGGGAGGGCTCCGGGAGGCGCGGGCGGGC
TCGGGGCTGCGCGCTCGCCCCGGGAGCAGGAGCAGCGGGAGGAGGAGCTGGCGCGGC
GGCCACGGGCGCCAGCGCGCCTTCTCGGCGCCTGGAGCCAGACGCGAGTAATCCTGGGT
GGCCCGCAGCGGAGCCGTGGCCGGGCTAGAGGAGCCGGCTGGACTGCGGGAGTGCCGGGC
GGCTCGCGGTGTCCGCCTCGGGCTGCTCCCCCTGCGCTGCGTTCTCGCGGCCCGCGCCGG
CGCTGCGCTCTGCGATGCGAGCCGCTGCGTGTCCAGCCGGGGCTCTGGCGAGGAACTCA
CTTCAAAGCAGCTGCACCAAGGGGGAGATTAAAGCCTTTGCCGCTTCCAATCAAATGG
GAGCCCAGGTGATTGGAGGGTCAAGGGGATGTGACGCGTCCCGCGCCGCCCGCCCGCC
GCTGCCAGGACTCTCAGTGCCGGTTTTTAATGGGCAGCTCCCTCTTCGCCGCCCCCTGTG
TGTCCCCTCCCTCGATTTTCGCTGGGAGGACGAGATGGACATTTATTCTACGTTTGCCATC
CGCCGCTCCCTCTTTTTTCTCCTCGTCTGTTCTTCTTTCCCGAGCTCGAAAATAAACT
GAAACCTTCTTTTGAAGGGGGGTGCGCGTGAGGAACAGACTGCGGGGGGTGTCCAGAAGG
AGCACCGGTGGGAGTGTGGACACCGGCCGGACTGTCAACTCCAGGGGCGAAGGGAACCTG
CACACCCAGTGTTTTTCTTTCGAGTAATCGAGATCCCGCGCGGCGCAGCGCAGCCACC
AGGGTAAGAAGGCAAGGTGGGGAGCCGGAGCTGGAAGAAGCCCGCCCGCCGCTCTAATT
TCCTCAGATTCGCGGGCGGAGAAACAGAAGCTAGATGGGCAGTCGAGCGGCGGGCGGCT
CAACACCGCGAGGAGCGCTGGGCTCTCCGCCCTTCCCGGCCACGTGACGCCCGGGGACGC
GTAGATTGGGGCAGCAGCGGGGGTCAATGTTTCTCTGTTTCAACCTCAGTCTGTCCCC
CAACCCCCATTCTTACTCTCCACCCCTGTTTTCTCCTCCCTCCCCCCTTCTTTGGGCATC
TCCACCCCTCCATCAATTGTCAATGTTCTCGACCGCAATCAATCAGTTATTTGTGAGCT
CTTGTCATCCTCCCGTGATTTATGTGAGCTTTTGTGCTGATTACAAGGCGGGTGGCAG
TTGAAGGGAAAAAGAGAGAGGGAGAGAGACGGAGAGGAAGGAGGAGATTGAGAGGGAA
CTGGAGGAGGGGAAAAGAGGAGCGGCCTCCTGGGATGGGGGTGGGGTGGGGGCTCTAAGA
AAAAGAATGAAAGAGGCGCACGGTGTGAGGAAAATGAATAGCGAGAGTAAAGTGCAGAG
TGCGCCAGGGCGCCGAGAGGGGCGCGCAGGCCTGGAGTGTGCGCCTGCCCTCTCGGTGT
CGGAGAGACGCCCTTCCACCTCTGGGAGCCTCGGTCTGTTGGGGTTCGCGGAGTTCGGGCG
CGGCTCCGGGTACCCGAGACCAGCGGCGGCAACTTCTAACACGGGAGATTTCCCGCCACC
CCACCCCGCCCGCGAGTCTCGCGGGGCGTGTGCGTGCGGAGGTGAGGCTGCCACCC
TCTGTAGTTCCCTAACCCCAAACCTCGGAGACTTCTAAGAGCCACACCACCAAGGAACTTC
TAGTCTGGAGGTCAATGGTGGGGCAAACCTCGCCTCAATTCTTTGACCCCTCGGGTCG
TAAGCAGGGCTAAGAGGCTGCGAAGAAGAGGCCTGGCCATGGGTGTATGGGGGAAGAAAC
ATCTCAGGCTCACTCATGCCCCCTCCCCGACCTTCTCCACCTGCCGCCATCCCCGAGG

FIGURE 1 (CONT'D)

CTGGGGAGCCAGGGTAACTCGGGGCTGCTCTCTCGAATTTATTGGAACGCCGAGTCGGAA
TGAGCTGCGCTAGGAGAGCCGAGGGAAGGAGCGAGAGAGGGAGGGGGCGGCTGCCTGTGG
GAACGCGGGTTCTTCCAGGGAAGCGGAGCGGGACTGCCGCGTTCCCCTCGATTTGCACCG
TCACTCGGGTTGTTTGGGAAGAAAAGGGGAGGCGCTGTGCGTGCCACCGGGTACCTGGAC
CTGGATGCCAGTGTGTATGCATGCCTGTGGCGCTGCGTGAGTTATCGGGGCTCTGATAG
CGTCCGGAGCGGGTTCGAGGGTCTCCTCCAGGAACTCGCAGAAATTAGAGGGGGTGGGGA
GGAGGACACACCCCCTTCTCGGAACGACTTAGAAGACTTTGAATCTCCCCTCCTCCGCT
TTTCCGCCCCGGCTCTTCTTTTGTGTCAAGTCTTTTGATAAATGGTGGGGCTGGGAGC
TCTGGGAGTGGGAGCCAGTCTGTGCCCCGCTGGGGGGCGGGGGCGAGCCTGGAGACCC
GGTTTTCGACCGGCGCGCACCTGGGGCTGAGCCGGGTGCGCGGGGGTGGGTCTGGAAC
TGCCCTTGGTATGCTCGCCCTCTCCTCTTGGCCCATCTCACTCCCCTCCCCACCTGACT
CCCCTCCCCGGCTTCTTTCTCTGTCTCCCACTCCGCACGGGTACCGAGAACTTTCCGGGG
TGAGTTTTAGAAATTTGCTCCTAGGCATTCTTTTTCTGCGTTTGGATTTTATCCCTTGATT
CTTTGGGTTGGTAACTTTATGAAATGGTAACTTGACTGAAGCTCATTTGGAGAGAAGAG
GGGAGTGAGGCGGTGTGTGCTTGGGGCTGGTGTGTGTGTCAGTGTGAGCGTGTAAAGAGACA
CCTGCATTCAAGGGGGTTTGTAGTGTCCGTGCGACATCTGAGGGAGGTGAGTCGGCGAGC
GGGTGGCGAGGCCCCACGCTGAGGGAGGCGGTTGTCTGGTCTCCGGGGAGCAAGTCCCAG
GTGCGCGTTTTCGAGGGGCGGACAGTCTACGCTGTCTCTGCGGGGCGAGCGCTCTGTGA
AGCACTCTTATCCTTCGGGTGTGTCCATGTGTGCCTGGTTACTGAGTGCAGCGCCGTCTA
GGTGTGACACCAACCAATGGTAGTGTCTTAACGCCGCGAGCCACCTTTGGGCCGTAT
CGCCGCGGCTCCCCGCGAGGCGCGGCACTGAAATTCTGGGGCCTGCGACAGGGCCGGG
GGGGACGCAGCCAAGGGCGTCCCTCCCCAGCCTCCAGACTCAGCTCTTCCCCCTCTCCTC
TAATTCCAGCAGCTTATTACGCCGGCGGCTCAGGGGAGGCGAGCCTCAGCACCTGAAGCCT
GGGGGGGCGGTGGAGTGGCTCCTGCGTCCCCCGGTGTGGCCACACACGCTCGTGGGGCTG
CGCTGTGCTGCGTGGGTGCGGGTCTGGTTCAGCGTGCCTTCGCTTTTCTCAAACTCCAC
TCCGAGGGTCCGAGCGCATGGGGGCGCCTGGGGGCGTGCAGCGCCGGGGCTTTTGGGAGG
CGCCAGCGTCCGAGCCTGCGCACCTCGCGCAGGAGGCCAAACCCCGAAGGCCGGCGCGG
GCCCGGGAGTGGGGGCCATTAACTCTGCGCCAGGCCTAAAGCCTCCAACCCCGAGCA
GCAGTTGGCGTGGATGTCTGCGGATTTTATTTGCAAACAATGGAAATGATTTGTTTTCT
CTAAAAAAGGAGTGGGCAAGGCAGATATTGGAGGAGGGGGTGGGAGGAGGAGAAGGAAGG
GGAAAGAGCTGAGGAAAAAGTTTGAATAATGCCTTGAACTATTCACTGTGAGATGGCTA
ATCAGTATTGAGGCCGAGGGCAGGCGGGCCGCTTTACCGCCGCTTCCCTTTTCATCTC
GGGCTCGGCGGAGGCGCTCAATTAAAAGCCTATCAGTTTGTAAGT

Gene 174. >ENST00000331566 cDNA sequence

GCAGAAAAGAAATGGTTTACAGATGAACCGGATAATGCCTATCCCAGAAAATTCAAATC
AAGCCCATGAGTACCCACATGGCTAACAGATCAACCAATATAAATCCACAAGCAGCTTG
ATTCCACCAATCAGAGAAGTTGAAGATGAATGTTGA

Gene 175. >ENST00000325946 cDNA sequence

CTGTCTCTTACAGCAATAATTACCTGTGGATAATAGATTATATTATTGGAAGGGCACAC
ACGCTTGCTGCCAGCCAGTTCTTCTTGGTGGGCTGCCCACTTCTGCTGCAGAACTGATG
AGCATCATGCCAGCGGAGAAGAGCTTGAGCCTAGGAACACAATGA

Gene 176. >ENST00000308111 cDNA sequence

GACACCGCGAGCCGCGCCGCACTCCCGCAGTCCAGCCGGCTCCTCTAGCCCGGCCACGGC
TCCGCTGCGGGCCACCCAGGATTACTCGCGTCTGGCTCCAGGCGCCGAGAAGGCGCGCTG
GGCGCCCGTGGCCGCGCGCCAGCTCCTCCTCCTCCCGCTGCTCCTGCTCCCGGGGCGAG
CGCGCAGCCCCGAGCCCGCCCGCGCCTCCCGGAGCCCTCCCCCGCTGCTCCCATGCG
CGCGGGTGGGTATGAGCACAGCGCCCTCGCTTTCTGCCCTAAGAAGCAGTAAGCACAGC
GGCGGCGGCGGCGGCGGAGGCGGCGGTGCAGACCCTGCCTGGACCGAGCGCGCTC
TCTGGAAATAGCTCCGGCCCCGGCCAGGCTCGTCCCGGCGGCGAGCACCAAGCCTTTT
GTGCACGCCGTGCCCCCTCTGACCCCTGCGCCAGGCCAACCGCTGCCAATCAAGGTG
CTGAAGATGCTGACGGCACGAACTGGCCACATTTTGACCCCGAGTACCTGCAGCCCTG
CCTTCCACGCCGCTCAGCCCCATCGAGCTCGATGCCAAGAAGAGCCCGCTGGCGCTGTTG
GCGCAAACATGTTTCGAGATCGGGAAGCCCGACCCCTCGCCCTCCTCCAACTCTCCTCG
GTTGCCTCCAACGGGGGCGGCGCGGGCGGTGCCGGCGGCGGTGCTGCGGGCGACAAGGAC

FIGURE 1 (CONT'D)

ACCAAATCGGGCCCCCTGAAGCTGAGCGACATCGGCGTGGAGGACAAGTCGAGTTTCAAG
CCGTACTCCAAACCCGGCTCGGATAAGAAGGAGCCGGGAGGCGGCGGTGGAGGCGGTGGC
GGTGGCGGGGGCGGCGGCGGGGTGTTTCGTTCGGAGAAGTCGGGATTCCGGGTACCGAGC
GCCACCTGCCAGCCATTACGCCCAGGACAGGCAGCCCCGAGCTCCAGCGCCTCGGCCTGC
TCGCCGGGAGGGGGACCCACGGGGCTGGCACACGGCCGGATTAGCTGCGGCGGCGGGATT
AATGTGGATGTGAACCAGCATCCGGATGGGGGCCCCGGGAGGCAAGGCTCTGGGCTCGGAC
TGCGGCGGTTTCATCGGGCTCCAGCTCCGGCTCCGGCCCCAGCGCGCCACCTCCTCCTCA
GTGTTGGGCTCTGGGCTGGTGGCTCCCGTGTACCCCTACAAGCCGGGCCAGACAGTGTTTC
CCTCTGCCTCCCGCGGGTATGACCTACCCAGGCAGCCTGGCCGGGGCCTACGCCGGCTAC
CCGCCCCAGTTTCCTGCCACACGGCGTGGCACTTGACCCACCAAGCCGGGCAGCCTGGTG
GGGGCGCAGCTGGCGGCGGCGCGGCGGGTCTCTGGGCTGCAGTAAGCCGGCCGGCTCC
AGCCCTTTGGCCGGAGCGTCTCCGCCGTCCGTGATGACAGCCAGTTTGTGCCGGGACCTT
TACTGCCTCAGCTACCACTGCGCTAGCCACCTGGCAGGGGCGGCGGCCGCGCAGCGCTTCT
TGCGCACATGATCCGGCTGCTGCGGCTGCGGCGCTGAAGTCGGGATACCCGCTGGTGTAC
CCACGCACCCGCTGCACGGTGTGCACTCCTCGCTAACGGCCGCGCGGCTGCTGGCGCC
ACACCGCCCTCCCTGGCCGGCCACCCCTCTACCCCTACGGCTTTATGCTCCCTAACGAC
CCTACTCCCCACATCTGCAACTGGGTGTTCGGCCAACGGGCCGTGCGACAAGCGCTTCGCC
ACGTCCGAAGAGCTGCTGAGCCACTTGCGGACCCATACGGCATTTCCTGGGACAGACAAA
CTGCTGTTCGGGCTACCCAGCTCGTCTCTGCGCCAGCGCTGCCGCGGCCGCGCATGGCT
TGCCACATGCACATCCCCACCTCGGGCGCACCGGGCAGCCCTGGGACGCTGGCGCTGCGC
AGCCCCCACCACGCGCTGGGACTCAGCAGCCGCTACCACCCCTACTCCAAGAGCCCGCTT
CCCACGCCTGGCGCCCCCGTGCCTGGTGCCTGCCGCCACCGGACCGTACTACTCCCCCTAC
GCCCTCTACGGACAGAGACTGACCACCGCCTCGGCGCTGGGGTATCAGTGA

Gene 177. >ENST00000299408 cDNA sequence

AGAAGCAGCAATGGTCCCTCCAGGGAACGGAAGCCGTTGAACGTGAACATTTGGAGTTTC
CTCTTTTGTGCTGATTCTTGAGGACTAGGAAGGTGCCCCGAAAAGAATTTCAGAGACCTGA
CAATGTCCCTGTATTGTGGAATAGCTTGAGGAGAAAATTTTTTTGGTGCTATAGGCTGC
TGTCAACCTATGTTACTAAGACACGGTATTTATTTGAACTGAAGGAAGATGATGATGCAT
GTAAAAAAGCCCAGCAAACAGGAGCGTTTTACCTCTTTTCATAGTCTGGCTCCTCTGCTTC
AGACTTCAGCACATCAATACCTGGCCCCCGGCACAGCCTGTTAGAGTTGGAAAGGCTCC
TGGGTAAATTTGGACAGGATGCACAAAGAATAGAAGATTCTGTGCTGATTGGATGCTCTG
AGCAGCAGGAAGCATGGTTTTGCTCTGGATCTAGGTCTGGATAGCTCCTTTTCCATAAGTG
CCTCCTTACACAAACCTGAAATGGAGACAGAGCTCAAGGGGTCTTTTCATTGAGCTGAGAA
AGGCACTCTTTCAACTCAATGCAAGGGATGCCTCCTTGCTGTCCACGGCTCAAGCTCTTC
TCCGCTGGCATGATGCTCATCAGTTCTGCAGCAGAAGTGGGCAGCCCACCAAGAAGAACG
TGGCTGGCAGCAAGCGTGTGTGCCCTTCCAATAATATAATCTATTATCCACAGATCCAGG
TGAACCTTGAGAGAATTAGAGACAGCTGCCTGGTTCAAGTCATGATGAGGTAGCCACAGCCC
TGAAGAGAAAGGGCCCCCTATACTCAGCAACAGAATGGGACTTTCCCATTTCTGGCTGCCCC
CTAAGTTAGCCATCTCCCACCAACTGATTAAGGAGTGGGTGGAAAAACAGACCTGTTCTT
CCCTGCCTGCTTAGCCCGGATCAAGTCACTTAGATCGCTCCTTGGTATTCTTGAGGGACA
AACTAGAGATCAGTTGACAAAGGAGAAGTGACAAAAGATAAGCTGCAGAAGGACCTCAGA
AGGGCAGAGCAAAGGGTGAGCCTACAGTAAGACACTTCTATCAGCAGTGTTAATGGAAGA
AATTCCTACCAATGGGCAATCAAAAAAGCCAGTGTGAGAAGAAAACTGATGAGCTGTCAA
CTGTCAAAAATCAGGGGGAAGGGGAAGCATTAGTTTGGATGTAGGCCCTTGTTTCAGTCA
TTTTCTCTAAGGCCTTGGAAGCAACATCTTCTGGCATATGGCTTGTTAATGTTGTGTTT
ACACTAACTGCCAAAATGTGCCTGTTGTAAGTTTGGTTAAACTTTTATCTTAGTATTGA
AAATATATAGCAAGTTTAAAGTCATTACTGAGTTACTTGTTACCCCTTACAGAATTAAGAA
AAATAGCACAGTATGACATTTTAAATTCATGTACAGGTGCATTCTAGTTACATGAACAT
GCTAGTTAAATAAAAGTCACAATTAAGTCATTATGACTCAGAGTACTTTATAATAAATCA
GATGCCCTGAGGCTCTGTTGAGGAAGTAGAATCCAATGGGACTCCAGACAGTAAATCTT
TTTCGCTGTTTTTCAGCTCTGTACATGCTCAGTTTGTGACCCAGGGAAAAGACTATTGCT
TTGCCATGCCTGTTTTCTAAATAAAACAGTTGCTGGCATTGTGCACATCCACAACGTGTT
GATTAACAAAGGGATTGGTGGAGATAAACAGATGCCAAACCTGACCTATTTCTTAAACTT
TATGGAATAAACTAAATTTAGGATTTCTCATCATTATATGATGCCATAAGGGAGAAG

FIGURE 1 (CONT'D)

AGTTTATTTTGGGGAAAATAAAAGAAATTTCCAC

Gene 178. >ENST00000335635 cDNA sequence

GGGTAAATTTGGACAGGATGCACAAAGAATAGAAGATTCTGTGCTGATTGGATGCTCTGA
GCAGCAGGAAGCATGGTTTGGCTCTGGATCTAGGTCTGGATAGCTCCTTTTCCATAAGTGC
CTCCTTACACAAACCTGAAATGGAGACAGAGCTCAAGGGGTCTTTCATTGAGCTGAGAAA
GGCACTCTTTCAACTCAATGCAAGGGATGCCTCCTTGCTGTCCACGGCTCAAGCTCTTCT
CCGCTGGCATGATGCTCATCAGTTCTGCAGCAGAAGTGGGCAGCCCACCAAGAAGAACGT
GGCTGGCAGCAAGCGTGTGTGCCCTTCCAATAATATAATCTATTATCCACAGATGGCTCC
TGTGGCGATCACGCTGGTGTGAGATGGGACCCGATGCCTGCTTGCCCGCCAAAGCTCCTT
TCCCAAGGGAATGTATTCTGCCTTGGCAGGTTTTTGTGATATAGGTGAAAGTGTGGAAGA
GACCATCCGCCGAGAAGTTGCAGAAGAGGTGGGATTGGAGGTGAAAGCCTGCAGTACTA
TGCATCCCAGCATTGGCCCTTCCCTAGTGGCTCACTCATGATTGCTTGCCATGCAACTGT
GAAACCAGGGCAGACAGAAATCCAGGTGAACCTTGAGAGAATTAGAGACAGCTGCCTGGTT
CAGTCATGATGAGGTAGCCACAGCCCTGAAGAGAAAGGGCCCCTATACTCAGCAACAGAA
TGGGACTTTCCCATTTCTGGCTGCCCCCTAAGTTAGCCATCTCCACCAACTGATTAAGGA
GTGGGTGGA AAAACAGACCTGTTCTTCCCTGCCTGCTTAGCCCGGATCAAGTCACTTAGA
TCGCTCCTTGGTATTCTGAGGGACAAACTAGAGATCAGTTGACAAAGGAGAAGTGACAA
AAGATAAGCTGCAGAAGGACCTCAGAAGGGCAGAGCAAAGGGTGAGCCTACAGTAAGACA
CTTCTATCAGCAGTGTTAATGGAAGAAATTCCTACCAATGGGCAATCAAAAAAGCCAGTG
TGAGAAGAAAACCTGATGAGCTGTCAACTGTCAAAAATCAGGGGGAAGGGGGAAGCATTAG
TTTGGATGTAGGCCCTTGTTCAGTCATTTTTCTCTAAGGCCTTGGAAGCAACATCTTCTG
GCATATGGCTTGTTAATGTTGTGTTTACACTAACTGCCAAAATGTGCCTGTTGTAAGTTT
GGTTAAACCTTTTATCTTAGTATTGAAAATATATAGCAAGTTTTTAAGTCATTACTGAGTT
ACTTGTTACCCCTTACAGAATTAAGAAAAATAGCACAGTATGACATTTTAAATTCATGTA
CAGGTGCATTCTAGTTACATGAACATGCTAGTTAAATAAAAGTCACAATTAAGTCATTAT
GACTCAGAGTACTTTATAATAAATCAGATGCCCTGAGGCTCTGTTGAGGAAGTAGAATCC
CAATGGGACTCCAGACAGTAAATCTTTTTCGCTGTTTTTCAGCTCTGTACATGCTCAGTT
TGTGACCCAGGGAAAAGACTATTGCTTTGCCATGCCTGTTTTCTAAATAAAACAGTTGC
TGGCATTGTGCATCCACAACGTGTTGATTAACAAAGGGATTGGTGGAGATAAACAGATG
CCAAACCTGACCTATTTCTTAACTTTATGGAATAAACTAAATTTAGGATTTCTCATCAT
TCATATATGATGCCATAAGGGAGAAGAGTTTATTTGGGGAAAATAAAAGAAATTTCCAC

Gene 179. >ENST00000242505 cDNA sequence

GGAATAACAAAACATGCTCTTAACCATCATCCCCCTCCAGAGAAGCTGGAGGAAATTTCC
CCCACAGTGACAGTCATGAGAAAGACACAAGTTCCCAAAGCAAGTCTGACATCACAAGA
GAATCATCTTTTACATCAGCCGACACTGGGAATTCAGTGTCTGCTTTTCCAAGTTATACA
GGCGCAGGGATATCTACTGAAGGAAGCTCGGACTTCTCCTGGGGATATGGTGAACCTCGAT
CAAAATGCCACTGAAAAAGTCCAGACAATGTTACAGCCATTGATGAACTCTTGATGAG
CAGAAGTTGAGTGTGCATACCAAGAGTCTACAAGAAGAGTGCCAACAGTGGACAGCTAGC
TTTCCTCACCTCAGGATTCTAGGTAGGCAGATAATCACTCCAAGTGAAGGTTATAGATTG
TATCCTAGATCCCCTTCTGCTGTTTCCGCTTCATATGAAACAACCTTGTCTCAAGAAAGA
GATTCTACTATATTTGGTATAAGGGGAAAGAAGTTACATTTTTTCATCTTCTTATGCTCAT
AAAGCATCTTCCATTGCCAAATCCTCCAGCTTTTGTCTATGGAAAGAGATGAGGAAGAC
TCTATAATCGTCTCAGAAGGAATAATTGAGGAATACCTAGCATTGATCACATAGATATA
GAAGAGGGATTTTATGGGAAGAAATCAGAAGCAGCTACAGAGAAAACAGAAATTAGGGTAT
CCTCCCATTGCTCCATTTTACTGCATGAAAGAAGATGTCCTTGCTTATGTGTTTGACAGT
GTATGGTGCAAGGTTGTGAGCTGTATGGAGCAGTTGACACGTAGTCACTGGGAAGGATTT
GCCTCTGATGATGAGAGTAATGTTGCAGTTACCAGACCCGATTGAGAAAGTTCTGTGTG
CTGAGTGAACCTACATCCTTTGGTGTACCGCGAGTGCCACAGTCTAAGGTGCTGTACATT
ACCTCAAATCCGATGAGTCTCTGTCAAGCAAGCAGACATCAGCCAAATGTGAATGATCTC
TTGGTTTATGGAATGCCTCTACAGCCAAGAAATCTCTCCCTAATGGACAAGCTCCTAGAT
CTTGATGACAAGCTACTTATGAGGCCTGGGTCCAGTACCATCCTTTCAACTCGAAATTGG
CCAAATCGAGCTGTGGAGTTTAGTACATCATCTCTGTATACACAGTGCAGTCCACCAGG
AGACGCAATCCACCACCACGAACTCTTCATCCGATCAGCACGAGCCATTGATGTGCTGAA
ACACCAAGATCTGTGGAAGAAATCCTCAGAGGAGCCCGAGTCCCAGTGGCACCCGACTCG

FIGURE 1 (CONT'D)

CTCTCCTCTCCCTCACCGACGCCCCTGAGTCGAAATAATCTGCTACCACCTATTGGCACA
GCTGAAGTGGAACATGTGAGCACTGTGGGGCCACAAAGACAGATGAAACCCCATGGCGAC
TCTAGTCGAGCTCAAAGTGCGGTGGTGGATGAACCTAACTATCAGCAGCCACAAGAAAGG
CTCCTTTTGGCCGACTTTTTCCCAGGCCCAACACAACCTCAATCATTTTTTGCTGGATACA
CAGTATCGTCGCTCATGTGCAGTTGAGTATCCTCATCAGGCCCGACCTGGCAGGGGATCT
GCAGGTCCTCAGTTACATGGGTCTACAAAATCTCAAAGCGGAGGCAGACCAGTCTCTCGA
ACCAGGCAGGGACCATAAGGCAAATGAGAAGAATCTATCAGGCTGCAGGAAACACGAGAT
TTCATGAAGCAGTATTAGTCATCAAGTGATGCAGAGCTTGTATAGAAGATCGACTAGAA
ATCATCTTCATGAAGAGTGATTTTTGGCACAAGTGACCGAAGAACAAAACACCATAGCAGC
CAAAAATGACATGAGTGTTGTTTCTATCTCCAGTTACTGTCTCTTTCAGCAGAAATTAAC
CTATCCCATTTGGAAGGCAAGTTTTGTACCCAAAGATGCAACAGTGAATAATACCCAAATC
ACTGCTCATGTTATCTCTTAACAATGATCAGTTCAATCATATAGGATTTGATGAGCTCAC
ACATACACAAAAGCAGCAAATCATCAGTGACAATATCACTGGCTTCAGAATACTTCAGC
CTGTGTTTCATTTCTGGAGAGTTGTACTCAGTTTTAAGTCATTTTGCTGTTGAAAATCTGA
CCTCATCAAATAGATGTCATTCTAAACTCTCTTTAGATGTCCTACCCTATCAGCAGAT
TAAAATGGAAGGGGTGTGTAACATAAAACATAAATGTTAAGCATTAGTATAAAGTAACTT
CTGTAATAAATTATATCGCATATTTTTTTCAGATAGGACAGCTCAACCTTACGATGCCTAC
CTGATGCCAGGTGATGCTTATTTTTCTTCTAAAGTAGGTTACTGGTCATATCTTTTTTCC
AAATATTAAATGCACCTTGCCAGATATTCTCCTGCAGCTCTAAGGAAAGGAAATCAATTT
AAAAATAATTTGTAGAATCTACTATTGAGCCACCAAAGTATAATTCCTAAAAGTTTAAG
AAACCCTGGCAATTAATTAGCATAAACATATCCTATAAACAGCAGGAGAGGTTTTCAGCTT
TCTGATTTTACTGTGGACCTTTTCTAAGGGCATTATGAATGCAGCAACAGTTTTAACT
ATGGCTTACATTTATTTTAAATTTCACTAAATACAAATCTTGATTGTATGCCAGTTTTTA
GATCTTATTAATTTTTCAGAATGGATAAATTCAAATAATCATAAATTACGGTAACTTTTTTA
TTATACCAAGGTGTTCTAATGCCATCATATGAAGACAGATGCTTCAAACAACCTGCATTA
AATTATATTTTAAATAAAATTAATAATCTATTTTTTAACCTATTTGTAGTCACAAACCGAAA
ACGTGTCGTCTTTACCTTAGAGCTAAAGGCTTACTTTATGCATACGGTATATTTAATAGT
CTACAAATCAAAGATTTAAACAGTCCCTTAAAAATTCATATATTCTCATACCAACTCAT
CTACATAGAAATGAAAATCTCTATTGTTCTCACAAACCATTACCATGAGTTCACTATAAC
AACTGGATCAATATGGCTTGCCCTTTCAAAGTTAAAGAATCAGAAAGGGGCCTGTAAGAAG
TCATTTAGCCCAATTCCCTCACCTGTGTGTTTTCCCTCAAAGCCAGTGCAATTTTTTTTT
TAACCAAAAACTGGACATGTTTAAATACATACAGTTTGACAAATTTGGATTTCACTCTTT
GTTTTGATGTAGTAACTCTTTTATAAAAGGGAACAGATTTCAGACAAGCTCAGTGGCCCAA
CTGAAGACATTAGCAATTAATGGCAGGACTTCAGTAATCAGTGGCAGGACTACAACATA
CATCTCTTCATGCTAGGGAAACCAGGCTCTCTATTATAAAGCTGACCAGGGCTATTGTTT
TCCCCTTTTCTCTCATCTAAACACCATTATATTTTTTCTAGGTACATTTTATGTTGGA
TCATTTACAAAGCCCCCAGAACTTAATCATCATGTTTTACCTTTTTTATTGAATTATATA
CACCTCTTACAAAATGCTTGAAGTAATTTAACACCTGTACATCAGTACAAAACCTGGCT
GAGTAAATGAAGAGAGGATCTATTCAAGATCATTAAGACCAAATGTAAACTGGGAAGTA
TGTGGAAGATAGCTGTCCAGCAAGTGTCTGGAAGGTGTTCTAGCTGGGTAGAGAGCCTAT
TCTAACAGACACGCACATCGCAGAAAGCAGCATGAACAGAACCATCCTAGATAAGAGT
TCTGTGTACAGAAGATCCATGGAGGCAAGTGCTGTGAGGAAGGACACTGCCTCCCTCCAC
CCTCCCAAATGTCAACCAAGTTCCTTCAGGTGAGACCTCACACAATGTCAAGTGCTTT
CTAGGAAATACTAAGATCAGGTTGAGAGATTCTGCTTGGTCTAGTCAATCTGAAAAATTC
AGGCTGGAAAGACACCTTTTCTCAAGAGCTGAATTGACTTTTGCCTTCAAATCCTGCCTG
CACCTTGCCTACGATGGCATCAATTTACACCTAAGGACCTTTGAAGAGAAAAATTCATT
ATTTCTTTTCTTTCTTGAGAGCAGATTTTTTCCCTCCTCCTTTGGAAGATTTGCAGTACT
TTGCTTCCATCTGAGCCAGAAAATGTCCATTTCTTTTGCCGATCCTTTTGTCTGCTCT
GTTTGAGAAGTTAAACACAAGCTTTCAACAATTATCCATAGACAGAAAGTACCTAGTG
GTTGCCAGGGGCTGGAAGGTGGAATAACTACTAATGGGTATGGAGTTTTTTTGGAAATGG
TGAAAATGTCTACAATTGGTGTTAATAATTGTAAAATTTGTAAATACACTTAAACCA
CCAAATTGTACACTTTAAAGGACAAATAGAAGGTATGCGGTTATGTCTTAAAGAAGAA
AACAAAATACAACATTCCAAAGAAAATATTAGCAGTAGGAATCAGATCATTAAGATGTG
GCAACAACTGCCAAGTTTACCTGAATGGCTGCCTTCAGGCTATCCACGCCTTCATCAAG

FIGURE 1 (CONT'D)

CCCCAACTCCTTTCTGCTCATTTCTGCTTCTTTGGCCTCTTCCTGAGCCTGAAACAGGAA
CTCACATGAGACTCAGGGCCACCAGGAAATGCTTAAAATACATACTCTTTCCAAAAGCA
AATCTATAATTCTGTTTCAATTTTATGAATATATGAATAGACAAAATGAATCGAATTACA
TAACTATGTCAATTCATTAAATGGCAACAATGCTGACAGCAAGCAGTAGATCCTCTGATTC
CAATTACCATTTGTTTTTTTACCCAATTCTATTTGCTAGAGGTAGTAAGTACTCTGGCACT
CATAAATCACATGATGATAAAAAGGAACATGAGGCCGGGTATGGTGGCTCACAACGTAA
TCCCCATACCTTTGGGAGGCCAAGGTGGGAGGATCACTTGAACTCAGGAGTTCAAGACCTG
CCTGGGTAAACATAGTGAGACCTCAGTTCTATAAAAAAGAAAAGAAATGAGCCTGGTGTGG
TGGCATGTGCTTGTAGTCCCAGCTACTAGGGAGGCTGAGGTGGGAAGATGGCTTCAGTCT
GAGAGTTTCAAGCTGCAATAAGCTGTGATCATGCCTCTGCACTCCAGCCTGGGTGATGGAG
ATGCCATCTCTTAGAAAAAAGAG

Gene 180. >ENST00000299416 cDNA sequence

ATTTTCAGTGTGCGATTTCAATTTTCCGTAGCAAATGTATATATAGAAAAATGTTAAATA
GATGTATTTGAATACCTTAAAAAATACAAGAACTGGAAGAAAGATAATATTGCAAAGCA
TCTACATATATCCTAGGCCTTTTGTGTACAAGGTTATTTGTGACAATTGTAAGGTATTAT
GAAGGCAGGTAGGATTATCTCCGTTTTACAGATAGGGAAGCTGAGGCCTAGAGGTGGAAA
CTTGCCCACTGATGTAAGATTCTCTCCGTTTACAGATAGGGAAGCTGAGGCCTAGAGGTGGAAA
ATATTATGTTGTCCATAGAGGGAAAAATGAGCAAAGACAGATGGCTTAACTCTGGTGTGT
GACTAAGATATAGGAAATTTATAGAGGAGGTTCTATCAATGTGCCGACTTACTTTGTGTT
TTATGTTCTGAGAACGATTACCAGCCATCTCAAATTCTGTGGTTGTCAAAGCTCCCCTGG
GGTTGTTGCTGGTTGGCCCCCACTTGCTTTGAGACTTTGATGCCAGGGCAGGTTGAGAGG
AACTGACTTCAGCTGAGTTTGTATCTTGGATCTGGGAAAGAGAAATGCTTTGAAAATCACG
GCAACTCTGGGAAGTTTAAAAGATATTAATGTATCCTGGAGAGTTTGGAGCTTTGCAGAA
ACTTATTGGCAGAGCAGAATGATTCTGAAAAATGCTACATCAGTGAGGGGATATTTGATA
AGGTATTTTCTGCCAACTCGGGTATTCACTTAGCATTGTTTATCCTTTAAGATATGTATA
CACATACTTCTCTGTGAGTTTACCCTACTAACAAAGTTTTATCCCAGCCTCAACCTTG
CTTTGGGTCTCCAGGCCCAAGTTTTCTACCATCTCTTGATGATTGCTCCAGCCCACTCT
GCTGCCACCTGGGATCCAACATGTTCAAACCCAGCTGTGAACTTCACAGAGTATTAAGAG
AAAGAGCCTTTGCTTCAGCAGTTTATGTTATTAAGACGGAGGCTTGGGTGATGTTATCTC
TCTCCACCAATGTGTAAGGTGAAAGTCCTATTAGGTAAGAGTTTTTGGGAAGACCCGTGTT
TTGTGCTTTTTTGGGTTTTAGTATAGGGTTTTTCTACAGGGCTAGAGGGAAAGTACCCC
AGCATTTCCAACCACTGGGGTGCAAAATTTTGGGTCTACAGCTTTACCTATTCTTTTC
AAGAACATTTTTGAAAAAACACATCTGTTAAGTTGAACCATGTGTAAGTCTGAATGCTG
ATGTTTGGCCGTTTTCTACTTAAAAAATAGGCCAGCAGTTTGTAAATTCAAGCTAATAT
ATGAACTTTTTGAAAAAGTTGTTCTTGGACACTAAAAGGTAAGACGGACGCCAGATTTCC
AGAGCAAGGGGAGGAGAGACCCGAGCAACATCACTTCCCTGAAGACCTAGCTCCTGCGCG
CGGCCGGGACTGTGACTCCACATGCCGGCGTTACTTACCCGGGCCCCGCGCCTGACTCGC
CACACCTCATTTTGGCGCCGCGTAAAGCGCGGATGCGCGGCGTGGCCACGCCCTTCAG
TGCTTGTGACGCAGGCGCCCTGGGCTTTTTGGGCGCGAAAAAGAAGCAGTCTGGGTTGT
ACCCGGCGCAGCTGGGAGCGGCTGCTTCTCCGGGGTCTGATCTCCGCCCGGCATGGGGC
TGCTGGACCTTTGCGAGGAAGTGTTCGGCACCGCCGACCTTTACCGGGTGTGGGCGTGC
GACGCGAGGCCTCCGACGGCGAGGTCCGACGAGGCTACCACAAGGTGTCCCTGCAGGTAC
ACCCGGACCGGGTGGGTGAGGGCGACAAGGAGGACGCCACCCGCCGCTTCAGATCCTGG
GAAAAGTCTATTCCGTTCTCAGTGACAGAGAACAGAGAGCAGTGTACGATGAGCAGGGAA
CAGTGGACGAGGACTCTCCTGTGCTCACCCAAGACCGAGACTGGGAGGCGTATTGGCGGC
TACTCTTTAAAAAGATATCTTTAGAGGACATTCAAGCTTTTGAAGAGACATACAAAGGTT
CGGAAGAAGAGCTGGCTGATATTAAGCAGGCCTATCTGGACTTCAAGGGTGACATGGATC
AGATCATGGAGTCTGTGCTTTGCGTGCAGTACACAGAGGAACCCAGGATAAGGAATATCA
TTCAGCAAGCTATTGACGCCGAGAGGTCCCATCCTATAATGCCTTTGTCAAAGAATCGA
AACAAAAGATGAATGCAAGGAAAAGGAGGGCTCAGGAAGAGGCCAAAGAAGCAGAAATGA
GCAGAAAGGAGTTGGGGCTTGATGAAGGCGTGGATAGCCTGAAGGCAGCCATTGAGAGCA
GACAAAAGGATCGGCAAAAGGAAATGGACAATTTCTGGCTCAGATGGAAGCAAAGTACT
GCAAATCTTCAAAGGAGGAGGGAAAAAATCTGCTCTCAAGAAAGAAAAGAAATATGGA
ATTTTTCTCTTCAAAGGTCTTAGGTGTAAATTGATGCCATCGTAGGCAAGGTGCAGGCA

FIGURE 1 (CONT'D)

GGATTTGAAGGCAAAAGTCAATTCAAGCTCTTGAGAAAAGGTGTCTTTCCAGCCTGAATTT
TTCAGATTGACTAGACCAAGCAGAATCTCTCAACCTGATCTTAGTATTTCTAGAAAGCA
CTTGACATTGTGTGAGGTCTCACCTGAAGGAACTTGGTGGTGACATTTGGGAGGGTGGAG
GGAGGCAGTGTCTTCTGACAGCACTTGCCTCCATGGATCTTCTGTACACAGAACTCTT
ATCTAGGATGTGGTTCTGTTTCATGCTGCTTTCTGCGATGTGCGTGTCTGTTAGAATAGGC
TCTCTACCCAGCTAGAACACCTTCCAGACACTTGCTGGACAGCTATCTTCCACATACTTC
CCAGTTTACATTTGGTCTTAATGATCTTGAATAGATCCTCTCTTCATTTTACTCAGCCAG
GTTTTGTACTGATGTACAGGTGTTAAATTACTTCAAGCATTTTTGTAAGAGGTGTATATA
ATTCAATAAAAAAGGTAAACATG

Gene 181. >ENST00000299418 cDNA sequence

GTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGCTTGCGAGTTCTTTCTGT
GTTTGTCTCTGCCCCTGCCAAGGCCGTAGAGCTGGTGCCTGCGGGTAGCGGGGCTCTCCG
AGGAGCCGCACGCCGGCGGCACCATGGTCCACCTCACTGCTTTTCTACAGCTACTCTCCT
CTGCAAGGCCTACCGTGGGGGCCACTTAACCATCCGCTTGCCCTGGGTGGCTGCACCAA
TCGGCCGTTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCAGGGATGGCCGTTTCGT
AGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCT
CAACCTAGACAGGATCCGTCAATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGA
AAAGCTTCTGGGTCTTGCTGGCTTTTTCCCTCTGCATCCTATGATGATCACAATGCTGA
GAGACTGCGAAGGAAACGGGCACGTGAAGTCCTGTTAGCTTCTCAGAAAACAGATGCAGA
AGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTGAGCATAGCAGTG
GGAACAAGGTCAAGGTCTTTTTGAAACACTGCAGCGATCTTAATTTTGTAGATTTGGAG
TTCAATAAATGGAGTATCCTGAGTTGCCCTTGCTCTTCTGGCCTGGCCTGCACAGGGCCC
AGGGAGAGATTTGTTCTTGTGTGACTTAGAGCTGGGTGTGGGTACTAATTAGCTTTTTTC
GACTTTGTCTTGGGATAGACAGTGGCTATGGGAGGATTGGACTTTTGTAGTTGGGCTCTGG
GTCTCTTGGACAACCTTTACAATTTACTGGCTTCCAAGACTTCCTGCTTCAAAACCCCCAG
CCAGACTATTTCATGGCCCATTTCAGATCTTCATGTTTCATCCCAAGTGCAAGAACAGTTA
ACCTTTCTTAATTGATTTTTTGAATTGGAGGTTTATATTGTCTTGCCTAATGCATATTCT
CTTTTTTTTTTTTTTTTTTGTAGACGGAGTCTTGTTCTGTTGCCAGGCTGGAGTGCGGTGGT
GCAATCTCAGCTCACTGCAATCTCCACCTCCTGGGTTCAAGAGGTTCTCCTGCCTCAGCC
TCCTGAGTAGCCGGGGAGCTACAAGCATGCACCACCACACCCAGCTAATTTTTTTTTTTT
TTTTGTAGAGGAGTCTCGCTCTGTGCGCCAGGCTTGAGTGACAGTGGCGCGATCTCGGCTCA
CTGCAAGCTCTGTCTCCTGGGTTTCATGCCATTCTCCTGCTTCAGCCTCCCGAGTAGTCCC
AGGAGTAGCTGGGACTACAGGTGCCACCACCACACCCAGCTAATTTTTTTGTATTTTTTA
GTAGAGATGGGGTTTACCATTGTTATCCAGGATGGTTTTGATCTCCTGACCTCGTGATCC
GCCCCGCTTGGCCTCCCAAAAGTGCTGGGATTATAGGCGTGAGCCACCGCCCGGGCAAAT
TTTTGTATTTTAGTAGAGATGGGGTTTACCCTGTTGGCCAGGATGGTCTCAATCTGAC
CTTGTGATCTGCCACCTCGGCCTCCCAAGTGCTAGGATTACTGGCGTGAGCCACCACT
CCTAGCCTTAATGCATATTCTTAAATATACAAAGGTAGATTTGTTATGAAAATTGCTTTG
GGGCTCTAATAACCTACCTTTTAAAGATGAGAACTGCTGGGCTTAAGGGAGTTCAAGTAT
GAATCAAGATTGAACCATTCAAATGTGGCTGTGATTTCTGCATATATCATAGATGGGATC
CTTCTGAGAATACTGGAATAGGGAATTAGGACACCAAGCCAATTCAAGCTGTGAACCTTAT
TCTTGTAATTTTCTTTCTTGCTGGTAATTTTATGGAGCAGGTTAAGAAGGCTGCTCTGTG
TTAGGATAAACTGTATACCAATAATGTTGACAACCTGTAATGAGTGTGCAATTTTACTTC
TTGTATCTTTTCTTCTACCTTGATGCCAGTAATCTATAAGGGATCTTTATAGTTTGAA
TGTATTTGAATAACTTCAGTATACTTTAGTTCTACTTTTTTATTTGACTCACAACCATTC
TTAGGTCTCAAGTATTCCTATGTGTTTTAAAGCCTGAAGTCAGTGAGATGAAATTC AAC
ATCAAGAATTTGAAGTAACTTGTAAAGGAAAAATAATATAAAGATACCATTTGGGGCAGTGG
CTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGAAGGATCACTTGAAGCCAGA
GTTTGAGACCAGCCTGTGCAACACAGCAAGACCCGCTCTACAAAACTTAAAAAATTA
GCTGGCTGTGGTGTGCTCACCCATAGTTCCAGCTACTCGGAAGCTGAGGCAGTAAGAT
CACTTGAGCCCAGGAGGCCGATGCTGCAGTGAAGTGTGATTGTTCCACTACAGTCCAGCC
TGGGTGACAGAGAAAAGAAAAAGAAAAACATTACATAATTTGGCTAGAGCATAATAATTTG
ATTTTCTGGTTTTTTGAAAATTTGAGTTGCAATAAAAGGATATTTCAAGTGTGCG

Gene 182. >ENST00000263565 cDNA sequence

FIGURE 1 (CONT'D)

CAAGGTTTTCGGGGACTGAGTGGGTTTTCAGACTTTCTCTCAGGATTTCCGCTGGCTTCAGG
 TTCGGTCAGGCGTCGGGACAGAGCCTGATCCAGGCTTCGGCGGCCGGTGGCAGCTCTCG
 ATCAGCTCTCGCAGTCGGAGAGGCGGCTAAGGAAAGGTGCCACAGCAGAGACGCGAAGGA
 GAGGCCCTAGAACCTTTTTCAAAGAAGAATGGAAGAAACCATGAAGCTTGCTACGATGGAA
 GACACAGTGGAGTACTGCCTGTTCTGATACCAGATGAGTCAAGGGACTCAGATAAACAT
 AAAGAGATTCTTCAGAAGTACATTGAGAGAATAATCACTCGGTTTGCACCTATGCTGGTC
 CCCTACATCTGGCAGAATCAGCCTTTCAATCTTAAATATAAACCTGGGAAAGGAGGTGTT
 CCTGCTCATATGTTTGGCGTGACAAAGTTTGGGGATAACATTGAGGATGAATGGTTTATT
 GTTTATGTAATAAAGCAGATCACAAAGGAATTTCCAGAGTTAGTAGCAAGGATTGAAGAC
 AATGATGGTGAATTCTTGTTAATAGAAGCTGCTGACTTTCTCCCTAAATGGCTGGATCCT
 GAAAATAGCACCAATAGGGTATTTTTCTGCCATGGGGAATTGTGTATTATCCCTGCACCA
 AGAAAATCTGGAGCAGAATCTTGTTACCCACCACACCCCCAACCAATTCCACAAGCATTG
 AATATAATCACAGCACATTGAGAAAAATACTTGCTTCAGAATCTATACGAGCTGCTGTG
 AATAGGCGCATCAGAGGGTACCCAGAAAAAATTGAGGCTCACTTCATCGAGCACACTGC
 TTCCTTCCAGCTGGCATTGTGGCAGTGCTAAAGCAGCGCCCCAGATTGGTGGCTGCAGCA
 GTCCAGGCATTTTACCTACGAGACCCTATTGACCTGCGAGCTTGTCTGTTTTCAAGACA
 TTCTTGCTGAAACACGAATAATGACATCGGTCACTTCACTAAATGTCTATATGCACAA
 TTGGTGCAACAAAGGTTTGTGCCAGACCGGCGGAGTGGATACAGGCTGCCTCCTCCATCT
 GATCCCCAGTACCGAGCCCATGAATTGGGCATGAAATTGGCTCATGGATTTGAGATCTTA
 TGCTCCAAATGTAGCCACATTTTTCTGACTGCAAGAAATCCCTTGTGACTGCCTCACCA
 CTCTGGGCCAGTTTTCTTGAAAGTCTGAAAAAGAATGATTACTTTAAGGGACTGATAGAA
 GGTTCGTCTCAGTACCGGGAAAGGCTAGAAATGGCAGAGAATTACTTCAGCTCTCAGTA
 GACTGGCCAGAAAGTTCTCTTGCTATGAGCCCTGGTGAAGAAATCTTAACCTTATTACAG
 ACAATACCATTTGATATAGAAGACCTTAAGAAAGAAGCAGCTAATCTTCCCCCAGAGGAT
 GATGACCAGTGGTTAGATCTCTCACCAGATCAGCTGGACCAGCTGCTGCAGGAAGCTGTT
 GGCAAAAAAGAATCCGAGTCTGTTTCCAAGGAGGAGAAGGAGCAGAACTATGACTTAACT
 GAAGTCTCAGAGAGCATGAAAGCTTTTCATATCCAAAGTCTCAACCCACAAGGGAGCAGAG
 CTGCCTCGAGAACCTTCTGAGGCTCCAATCACTTTTGTATGCAGATTCTTTTCTTAATTAT
 TTTGATAAGATTTTAGGGCCAAGGCCTAATGAGTCAGATTCTGATGATCTGGATGATGAA
 GACTTTGAATGTTTAGATAGTATGATGACTTTGGACTTTGAAACACACGAACCTGGCGAA
 GAGGCTTCCCTGAAAGGAACACTTGATAATCTCAAGTCATACATGGCCCAGATGGACCAG
 GAACTAGCACACACCTGCATCAGCAAAAGTTTTCACTAGGAACCAAGTGGAACTGTGTA
 TCCCAGACTACCGATAACAATTGAGATGAGGAAGATTCTGGTACGGGAGAATCTGTTATG
 GCACCAGTAGATGTAGACCTGAACCTGGTTTTCAAATATATTGGAATCCTATAGCTCCCAA
 GCTGGACTGGCAGGACCTGCTTCCAATCTTTTACAAAGCATGGGAGTGCAGCTGCCTGAC
 AACACCGATCACAGACCAACAAGTAAGCCAACAAAAAATTAACCAGCACATTTAGCTTCT
 CTTTTTTCTTTTTTAAATAAATATTGAATATGATTCTGTTT

Gene 183. >ENST00000287239 cDNA sequence

GACAACAACAGGGGGACACAAAATGGCGGCGGCTTAGCTCCTACCCCTGGCGGCGGCGGC
 AGCGGTGGCGGAGGCGACGGCACCTCCTCCAGGCGGCAGCCGAGTTTTCTCAGGCAGCGG
 CAGCGCCCCCGGCAGGCGCGGTGGCGGTGGCGCGCAGCCAGATTTGCCTGAAGACCTGGA
 TAATCTCCATTTTTGTCTGACTGTTAAACGTTTGAAGTTCCAATTCTGGTCTTGATT
 TCCCAGTTAAAGATGTTCTTCAACCGAATGCAGTCTTTCCTGTTGGTAAAATAAGACAAC
 CATCAACATTGCCTGTTTGTCTGCTTTTGAATCTCTTAAGGATGGATGTTTGTAAAGATGT
 TGCTTAATACAGTCTGGAATACTCTGTCCATTTGTTGAATTGTAAATGACTTTCAAATGT
 GCAAGTTCTGTAAATACAAAGAGAACCTCTATGGGTAACTTTTGTGTTGAAGAAGTCAT
 TTGTCAACCATGGTAAACTTGCAACCCACTTTATACAGAGTGGATTCTTGAAGCTATA
 CAGAAAATAAAAAAGCAAAAGCAAAGGCCCTCTGAAGAGAGAATCTGCCATGCGGTGAGT
 ACTTCCCATGGGTGGATAAGAAGACAGTCTCTGAACAGCTGGAACTCAGTGTTCAGGAT
 GGCTCAGTTCTCAAAGTCAACCAACAAAGGCCTTGCCTCCTATAAGGACCCAGACAACCTT
 GGGCGCTTTTCATCAGTTAAACCAGGCATTTTCTAAGTCAGCCAAGGGGTCTAGAGGA
 TCATGTAATGATCTCCGCAATGTGGATTGGAATAAACTTTTAAGGAGAGCAATTGAAGGA
 CTTGAGGAGCCGAATGGCTCCTCCCTGAAGAACATAGAGAAGTATCTCAGAAGTCAAAGT
 GATCTCACAAAGCACCAACAACCCAGCCTTTCAGCAGCGGCTGCGACTGGGGGCCAAA

FIGURE 1 (CONT'D)

CGCGCTGTGAATAATGGGAGGTTACTGAAAGACGGACCGCAGTACAGGGTCAATTATGGG
AGCTTAGATGGCAAAGGGGCACCTCAGTATCCAGTGCATTCCCATCCTCGCTCCACCT
GTCAGCCTTCTACCCCATGAGAAAGACCAGCCCCGTGCTGATCCATTCCAATATGTAGC
TTCTGTTTTGGGGACTAAAGAATCAAATCGTGAAAAGAAACCAGAAGAACTCCTCTTTGT
GCAGATTGTGGCAGTAGTGGACACCCATCCTGTTTGAAATTTTGTCTGAATTAACAACA
AATGTAAAGGCCTTAAGGTGGCAGTGCATCGAATGCAAGACATGCAGTGCCTGTAGAGTC
CAAGGCAGAAATGCTGATAATATGCTTTTTTTGTGATTCTGTGATAGAGGATTTTCATATG
GAATGCTGTGACCCACCACTTTCCAGAATGCCAAAAGGGATGTGGATTTGCCAAGTCTGC
AGACCAAAGAAAAAGGGAAGAAAACTACTTCATGAGAAAGCTGCACAAATAAAACGACGA
TATGCAAAACCCATTGGACGACCGAAAAATAAATTAAAGCAACGATTGTTGTCTGTAACC
AGTGATGAAGGATCCATGAATGCATTACAGGAAGGGGGTCACTGGTAGGGGTCAAAG
ACTAAAGTCTGTACCACACCTTCATCTGGTTCATGCTGCATCTGGGAAGGACTCAAGCAGC
AGATTGGCTGTTACAGACCCCACTCGGCCTGGTGCCACCACCAAAATCACCACCACCTCC
ACCTACATTTCTGCCTCTACACTTAAAGTTAAACAAGAAAACCAAAGGGCTCATTGATGGC
CTTACTAAGTTTTTTTACACCATCACCTGATGGTTCGAGATCACGAGGTGAAATTATAGAC
TTTTCAAAGCACTATCGTCCAAGGAAAAAGGTCTCTCAGAAACAGTCATGCACCTTCTCAT
GTGTTGGCTACAGGTACCACACAAAAGCTAAAACTCCACCTTCTTCACTTCCACCCCCA
ACCCCATCTCCGGTCAGAGCCCCAGTTCACAAAAGTCCAGCACGGCCACTTCTTCTCCC
TCTCCCCAGAGTTCTTCCAGCCAGTGCAGTGTGCCCTCCCTGAGCAGCCTTACCACTAAC
AGCCAGCTGAAGGCACTCTTTGATGGGCTTTCTCATATCTATACCACTCAGGGACAGTCT
CGCAAAAAGGGACACCCGAGTTATGCACCACCCAAACGTATGCGTCGTAAAACCTGAATTA
TCTTCCACGGCAAAATCTAAAGCCCACTTCTTTGGCAAAAGAGATATTAGAAGTCGGTTT
ATTTCTCACTCCTCCTCCTCTAGCTGGGGGATGGCTAGAGGAAGTATTTTTAAAGCAATT
GCTCACTTCAAGCGAACAACTTTCTTAAAAAGCACAGGATGCTAGGCAGATTAAAATAT
AAAGTGACCCCTCAGATGGGGACCCCTCACCAGGAAGGGGAGCTTGACAGACGGAAGG
ATTAAACCTGATCAGGATGATGATACTGAAATAAAAAATAAACATCAAAACAAGAAAGTGCA
GATGTAAATGTGATTGGAAACAAGGATGTGCTTACTGAAGAGGATTTGGATGTTTTTAAG
CAGGCCCAGGAACCTTCTTGGGAGAAAATAGAGTGTGAGAGTGGGGTGGAAAGACTGTGGC
CGGTACCTTCTGTGATTGAATTTGGTAAATATGAAATCCAAACCTGGTACTCCTCGCCT
TACCCACAGGAATATGCAAGATTACCAAAGCTTTACCTGTGTGAATTCTGTCTTAAATAT
ATGAAAAGTAAAAATATTTTTGCTAAGACACTCCAAGAAGTGTGGATGGTTTTATCCTCCA
GCAAAATGAAATTTACCGAAGGAAAGACCTTTTCACTATTTGAGGTTGATGGGAATATGAGC
AAAATTTATTGCCAAAACCTTTGCTTGTGTAGCCAAGCTCTTCTGGACCACAAAACGTTG
TATTATGATGTGAGCCATTCTTTTTTTATGTCTTACAAAAATGATGAAAAGGGCTGT
CATCTGGTTGGATACTTCTCTAAGGAAAAGCTTTGCCAGCAGAAGTATAATGTCTCCTGC
ATAATGATCATGCCCCAGCACCAAAGGCAAGGATTTGGACGGTTTCTCATTGATTTTCAGC
TATTTGCTTTCTAGAAGAGAAGGCCAAGCAGGGTCTCCTGAAAAGCCTCTCTCCGATCTG
GGCCGTCTCTCCTACCTGGCATATTGGAAGAGCGTCATCTTGGAGTATCTCTACCACCAC
CATGAGAGGCACATCAGCATCAAGGCAATTAGCAGAGCGACGGGCATGTGCCACATGAC
ATTGCCACCACTCTGCAGCACCTCCACATGATCGACAAGAGAGATGGCAGATTTGTCTATC
ATTAGACGGGAAAAGTTGATATTGAGCCACATGGAAAAGCTGAAAACCTGTTCCAGAGCC
AATGAACTTGATCCAGACAGTCTGAGGTGGACCCCAATTTTAATTTCTAATGCTGCAGTG
TCTGAAGAAGAGCGAGAAGCTGAGAAAGAGGCTGAGCGGCTAATGGAACAAGCTAGCTGC
TGGGAGAAGGAGGAACAAGAAATCCTGTCAACTAGAGCTAACAGTAGGCAATCACCTGCA
AAAGTACAATCGAAAAATAAATATTTGCATTCCCCGAGAGCCGGCCAGTCACAGGGGAG
CGAGGGCAGCTGCTGGAGCTGTCTAAAGAGAGCAGTGAAGAAGAAGAGGAGGAGGAGGAC
GAGGAGGAGGAAGAAGAGGAGGAAGAAGAGGAAGAGGATGAAGAGGAGGAAGAAGAGGAA
GAAGAAGAAGAAGAAGAAGAAAATATTCAAAGCTCTCCCCAAGATTGACGAAACCAAG
TCAGTTGCCATAAAGAGAAAGAGGCCTTTTGTACTAAAGAAGAAAAGGGTTCGTAAACGC
AGGAGGATCAACAGCAGTGTAACAACAGAGACCATTTCAGAGACGACAGAAGTACTGAAT
GAGCCCTTTGACAACTCAGATGAAGAGAGGCCAATGCCACAGCTGGAGCCTACCTGTGAG
ATTGAAGTGGAGGAAGATGGCAGGAAGCCAGTCTGAGAAAAGCATTCCAGCATCAGCCT
GGGAAGAAAAGACAAAACAGAGGAAGAGGAAGGAAAAGACAATCATTGCTTCAAGAATGCT
GACCCTTGTAGAAACAATATGAATGATGATTCAAGTAACTTGAAAGAAGGCAGTAAAGAC

FIGURE 1 (CONT'D)

AATCCCGAACCTCTAAAGTGCAAACAAGTGTGGCCAAAAGGAACAAAGCGCGGTCTATCT
AAGTGGAGGCAAAACAAAGAGAGGAAGACCGGATTTAAACTGAATTTGTACACCCCGCCA
GAAACACCCATGGAGCCTGACGAGCAGGTAAACAGTGAAGAACAGAAGGAGACTTCAGAA
GGAAAAACCAGCCCCAGTCCCATCAGGATTGAGGAGGAGGTCAAGGAAACTGGGGAAGCC
CTGTTGCCTCAAGAGGAAAAACAGAAGGGAAGAAACATGTGCCCCTGTAAGTCCAAACACA
TCACCAGGTGAAAAACCAGAAGATGATCTCATCAAACCTGAGGAAGAGGAAGAGGAGGAG
GAGGAGGAAGAGGAAGAAGAGGAAGAAGAGGAAGGGGAAGAAGAAGAGGAGGAGGAAAT
GTAGAAAAAGATCCAGATGGTGCTAAAAGCCAAGAAAAAGAGGAACCAGAAATCTCCACG
GAAAAAGAAGACTCTGCACGTTTGGATGATCACGAAGAGGAGGAGGAAGAGGATGAAGAG
CCATCCCAACAACGAGGACCATGATGCCGATGACGAGGATGACAGCCACATGGAGTCTGCC
GAAGTGGAGAAGGAAGAGCTGCCAGAGAAAGCTTCAAAGAAGTACTGGAAAAACAGGAG
ACTTTTTTTAGACCTTAATGTGCAGCCTGGTCACTCGAACCCAGAGGTCTTAATGGACTGT
GGCGTCGACCTGACAGCTTCTTGTAACAGTGAGCCCAAGGAGCTTGCTGGGGACCCTGAA
GCTGTACCCGAATCTGACGAGGAGCCACCCCAAGGAGAACAGGCACAGAAGCAGGACCAA
AAGAACAGCAAGGAAGTCGATACAGAGTTCAAAGAGGGAAACCCAGCAACCATGGAAATC
GACTCTGAGACTGTCCAGGCCGTTTCACTCTTTGACCCAGGAGAGCAGCGAACAGGACGAC
ACCTTTTCAGGATTGTGCCGAGACTCAAGAGGCCTGTAGAAGCCTACAGAACTACACCCGT
GCAGACCAAAGTCCACAGATTGCCACCACGCTCGACGATTGCCAACAGTCGGACCACAGT
AGCCCAAGTTTTCATCCGTCCACTCCCATCCTGGCCAGTCCGTACGTTCTGTCAACAGCCCA
AGTGTCCCTGCTCTGGAACACAGCTACGCCCAAATCAGCCAGATCAAAGTGCCATCTCA
GTGCCATCTCTGCAGAACATGGAAACCAGTCCCATGATGGATGTCCCATCAGTTTCAGAT
CATTACAGCAAGTCGTAGACAGTGGATTTAGTGACCTGGGCAGTATCGAGAGCACAACCT
GAGAACTACGAAAACCCAAGCAGCTACGATTCTACTATGGGAGGCAGCATCTGTGGAAAC
GGCTCTTTCACAGAACAGCTGCTCCTATAGCAACCTCACCTCCAGCAGTCTGACACAGAGC
AGCTGTGCTGTACCCAGCAGATGTCCAACATCAGCGGGAGCTGCAGCATGCTGCAGCAA
ACCAGCATCAGCTCCCCTCCGACCTGCAGCGTCAAGTCTCCTCAAGGCTGTGTGGTGGAG
AGGCCTCCGAGCAGCAGCCAGCAGCTGGCTCAGTGCAGCATGGCTGCTAACTTCACCCCA
CCCATGCAGCTGGCTGAAATCCCCGAGACGAGCAACGCCAACATTGGCTTATACGAGCGA
ATGGGTGAGAGTGATTTTGGGGCTGGGCATTACCCGAGCCGTGAGCCACCTTCAGCCTT
GCCAAACTGCAGCAGTTAACTAATACACTTATTGATCATTATTGCCTTACAGCCATTCC
GCTGCTGTGACTTCTATGCAAACAGTGCCTCTTTGTCCACACCATTAAAGTAACACAGGG
CTTGTTCAACTTTCTCAGTCTCCACACTCCGTCCCTGGGGGACCCCAAGCACAAGCTACC
ATGACCCCCACCCCCAACCTGACTCCTCCTCCAATGAATCTGCCGCCGCTCTTTTGCAA
CGGAACATGGCTGCATCAAATATTGGCATCTCTCACAGCCAAAGACTGCAAACCCAGATT
GCCAGCAAGGGCCACATCTCCATGAGAACCAAGTCAGCGTCTCTGTACCAGCCGCTGCC
ACCCATCAGTCACAAATCTATGGGCGCTCCCAGACTGTAGCCATGCAGGGTCTTGACGG
ACTTTAACGATGCAAAGAGGCATGAACATGAGTGTGAACCTGATGCCAGCGCCAGCCTAC
AATGTCAACTCTGTGAACATGAACATGAACACTCTCAACGCCATGAATGGGTACAGCATG
TCCCAGCCAATGATGAACAGTGGCTACCACAGCAATCATGGCTATATGAATCAAACGCCC
CAATACCCTATGCAGATGCAGATGGGCATGATGGGCACCCAGCCATATGCCAGCAGCCA
ATGCAGACCCACCCACGGTAACATGATGTACACGGCCCCCGGACATCACGGCTACATG
AACACAGGCATGTCAAACAGTCTCTCAATGGCTCCTACATGAGAAGGTAGACAACGTGG
GCAGTCCACAAAACCTACGGGGCATCACTATTGGATTGATCTGCACAAATACCTTTGAAG
AGTACGATTTCAAACCCAGCAATTGGTGTGAATGCAAAAACATTTGTTGGCACCATTAT
TTAAAAAAGCTGTATGCAGCAGAAAGCCTTATACAAAGTTGTTTTCTTTTTTTT
CCTTTTTCTTTTTTTTGGTACCTTCATTTCTGTTACTTTTATATAAAATTCTCTGCAAAG
GAAGGCCTCTCTTTGGACTACAATTTGGAGGCAGCCACTTGTTGTGCCTGCTTCTGTAA
ACAATGTGGATATCAAGCCCCCCCCAAATTATCTGTTTAAATATTGAACCTAGAGCTTTTT
TTTTCCCTTCCCTGTCCACTCCATGTAAATGCCTTTAGCATTTTCAGTTATTGTATATTTT
GTTTAAAGGTGACACTTCAGCATGCCGCTAATGTCTTTGTTAGTGACAGTGCATTTTGTAG
TACTGTACAAGTGTTGTGCTAACAGTAAGCCATTTCTTAAGTTTTTTGCCTTGATTAGGG
TGCCCTAATTTGAGGGTTTTAAAAAAACTATATTTTGTTAATTATAAACTGTAAAGA
GCTATAAAAGCTATTCCCATTTGGTTAGTCAAAAGGGTTTTATTGCTAAATGTTTGGTGT
AAAGTTGAGACCCTTTTCCATTTTGGTGACAGATTTCTTTGGGAAAAAAGGCAGCTTTT

FIGURE 1 (CONT'D)

TGTTTTATAAATGCAGACTTCTGTTTATTGAATGAAGCATATCTCAGTGTTTATCTGTCA
GGTTTTGAAACATTTTCATATATGTCCAAATACTTGGCAGGATTTAAAAAAAATAGTGAA
TTTGGTGTAAGTTGCTATTTTATGGAAATGCCTCTAACTTTACATTTTCATTCCATCTG
TAGATTTTTCTATCTTTATAAAATATTGGAGTTATTTTTTAAGGAAAAATAGAAAAGTAG
CTTGTAATAGCTCAAACCTAAGCTTACAAATCGCATGTAAAAAAGCAAAAAAGTTATTTG
TGTCTGTTTATATTGCTTCCTTTTTTGTAGCCTTTGTACCTGTACAGGGTGACAGTAAGG
GCCAAGCAGGAGAGGCGTAATCCTTGTATAAAATAGGATCCAGCGACACTCTTGATTTTA
TCTGTTCTCTTTTTTAGTCAGTCACCTTCAAAAAACAAAAACAAACAAAAAAGCTGTA
CATTTTAAACATAAAATAAATTATGATGAGCCATTTTTAGCCTCTTGTGTCTGTCTATATT
ATGATTGATAGAGAATGACCAATGGAAGTGTATCATGTGTACGCCTCAGAACACATACA
CATTTTGGGAAAATAAATTATTTAGTGTAATTTGGAGTTATGGGATTTTCTGATTTGTTT
TGACTTTGGGGGAGGGGTTGGCAATAAATAAGAGTAATATCTAATAAAACCATCACATAT
ACCAATACCTATTTAATAAATAAATTTATAATGATTTTAAATGCTTTTCATGAAAGTTT
ATTTTATGCGAGTGACATACCTTCTGTATGCCAATCATTGTCTTTAAATAAAGTGAAATT
GTTTTTT

Gene 184. >ENST00000326248 cDNA sequence

GGGGTCGGTGCTGGCCGAGGGGGCGCCGGCTGCCGGAGTGACATGGCGGCCGGCCCCAT
TAGGGTGGTGTTGGTCCTTCTAGGGGTGCTCAGTGTCTGTGCAGCCAGCGCCATGGGTG
CGTAGCGGAGAGGGAGGCGGGCGGGGAGGCGGAGTGGGCGGAACCGTGGGATGGCGCGGT
TTTCCGGCCGCCCCCTCGGCGCTGGGCGCAGTGGGGGTGACGCGCAGCTCTGGGACGCCGCG
GCCAGGGAGGGAGGAGGCGGGGGACTTGCCGGTACTGCTGTGGTGGAGCCAGGGCTATT
CCCCCACTTCCCGGGAGACTCGGAGCGCATCGAGTGTGCGCGCGGCGCGTGCCTGGCGTC
CCGGAACCGCCGAGCGCTGAGGGACTCGCGGACGCGCGCGCTGCTCTTCTACGGCACAGA
CTTCCGCGCGTGGCCCGCCCCGCTGCCGCGCCTGGCGCACCAGAGCTGGGCGCTCCTCCA
CGAGGAGTCGCCCCCTCAACAACCTTCTTGCTGAGCCACGGCCCGGGCATCCGCCTCTTCAA
TCTTACCTCCACCTTCAGTCGCCACTCGGATTACCCGCTGTGCTGCAGTGGCTGCCCGG
GACCGCCTATCTGCGCCGCCCCGGTGCCTCCGCCCATGGAACGCGCGGAGTGGCGCCGCCG
CGGCTACGCGCCGCTGCTCTATCTGCAGTCACACTGCGACGTGCCAGCGGACCGGGACCG
CTACGTGCGCGAGCTCATGCGCCACATCCCGGTAGACTCCTACGGGAAATGCCTGCAGAA
TCGGGAGCTGCCTACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGA
GCTCTTGGCTTTCTTGTCGCCGTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAA
CGACTACATGACAGAAAACTGTGGCGTCCCATGCACCTGGGCGCTGTGCCCGTGTACCG
CGGTTCTCCCTCTGTGAGGGACTGGATGCCGAACAATCACTCCGTCTCTGATTGATGA
TTTTGAGTCTCCTCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGA
GTATATGAAATACCTGGCATAACAAGCAACCTGGGGGCATACCAACCAATTTCTTCTGGA
TAGTCTGAAGCATCGGGAGTGGGGAGTGAATGATCCTTTGCTGCCTAACTACCTCAACGG
CTTCGAGTGTTCGTCTGTGACTACGAACTGGCTCGGCTGGATGCCGAGAAAGCCACGC
GGCCTCTCCCGGGGACAGCCCCGTCTTTGAGCCCCACATTGCCAGCCCTCACACATGGA
CTGCCAGTGCCACACCTGGCTTTGGCAATGTGGAAGAGATTCTGAGAATGACAGTTG
GAAAGAGATGTGGCTGCAAGATTATTGGCAAGGTCTGGACCAGGGGGAAGCTCTCACTGC
CATGATCCACAACAATGAAACAGAGCAGACGAAATTTTGGGATTACCTACATGAAATCTT
CATGAAGAGGCAACATCTCTAAGTGCCCTTGCAAGAGCCTTTAACTTGGCGGAGCTAAGG
AGATCTTATTCTACCATGGGACATAAGGAGCATCCACTGCACAAACCCTTAATGAACACT
GTCTTTTCATGGATTCAAGGAATTCAGTTTTATCTATTAAGATTTTATCTTAATGATGA
GTAGCCAAGGTCTAACATAGGGCCTCTCCTCAAGGAGAGATGGAGGGATACAATTCTTGG
TTCAGTGGGAAACAGAAACCTAAAAACATCCATTTGATTCAAGGTGCTGGTCCAACAGAGT
TTTTAACTACTCACTTCTTTATTTTCATCCTTTGACTGTACTTGATTACCAAGTGAAGTA
AGATGGGTGAGTTACGACTTACAACTTTTGTCTATTCCCAGACTCCTCATTATTTCAG
TACATTTCCCAATAATCTCTTTTCTCATCTCTTGCTTTATAAATTGTTACGTTGGTGGA
GAAGCAAAACATTTGGTGAGTTGTATTCTGGTTTTCCGGAGTTGGATTTTTTTATATTAT
ATACTTTTCATGTC

Gene 185. >ENST00000299593 cDNA sequence

CTGCAGATAGAGCAGCGGCGGTAGCCGCGGCGGCCACTCCGCGCGTTCATGGGCGG
AGGCACCGGGCGGCGCAGATAGGCGGTCCCGGGCAGCCACTGCAGCGACAGCGGGTAATC

FIGURE 1 (CONT'D)

CGAGTGGCGACTGAAGGTGGAGGTAAGATTGAAGAGGCGGATGCCCGGGCCGTGGCTCAG
CAAGAAGTTGTTGAGGGGCGACTCCTCGTGGAGGAGCGCCAGCTCTGGTGCGCCAGGCG
CGGCAGCGGGGCGGCCGACGCGCGGAAGTCTGTGCCGTAGAAGAGCAGCGCGCGCTCCG
CGAGTCCCTCAGCGCTCGGCGGTTCCGGGACGCCACGCACGCGCCGCGCGCACACTCGAT
GCGCTCCGAGTCTCCCGGAAGTGGGGGAATAG

Gene 186. >ENST00000310381 cDNA sequence

ATGGGGAACATACTGACCTGTTGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAA
CAGGGGTGCGTGTGTCCCTCTGAATCTGAGATCTATGAGGCAGGAGCTGGGGACAGGATG
GCAGGAGCGCCCATGGCTGCTGCTGTGCAGCCTGCTGAGGTGACCGTTGAAGTTGGTGAG
GACCTCCACATGCACCACATTTCGTGACCAGGAGATGCCTGAAGCTTTGGAGTTTAACCT
TCTGCCAATCCAGAGGCAAGCACAATATTCCAGAGGAACTCTCAAACAGATGTTGTAGAA
ATAAGAAGAAGCAACTGTACAAACCATGTATCTACTGAGCGTTTCAGTCAACAATACAGC
TCGTGTTTCGACAATATTCTTGTATGACAGCACAGCCAGCCAGCATTATCTTACAATGACA
ATAATATCTGTGACCTTGAGATACCTCATCATATCACACAAAGAGATGCAGATAGATCT
TTGAGCATACCTGATGAACAGTTACACTCATTTGCGGTTTCCACCGTGACATTACGAAG
AACAGAAATGGAGGTGGGAGTTTAAATAACTATTCTCTCCATTCCATCGACTCCCAGC
ACCAGCCAGGAGGACCCTCAGTTCAGTGTTCTCCCACTGCCAACACACCCACCCCGTT
TGCAAGCGGTCCATGCGCTGGTCCAACCTGTTTACATCTGAGAAAGGGAGTCACCCAGAC
AAAGAGAGGAAAGCCCCGGAATCATGCTGACACCATCGGGAGCGGCAGAGCCATCCCC
ATTAAACAGGGCATGCTCTTAAAGCGAAGTGGGAAATGGCTGAAGACATGGAAAAAGAAA
TACGTACCCCTGTGTTCCAATGGCGTGCTCACCTATTATTCAAGCTTAGGTGATTATATG
AAGAATATTATAAAAAAGAGATTGACCTTCGGACATCTACCATCAAAGTCCCAGGAAAG
TGGCCATCCCTAGCCACATCGGCCTGTGCACCCATCTCCAGCTCTAAAAGCAATGGCCTA
TCCAAGGACATGGACACCGGGCTGGGTGACTCCATATGCTTCAGCCCCAGTATCTCCAGC
ACCACCAGCCCCAAGCTCAACCCGCCCCCTCTCCTCATGCCAATAAAAAGAAACACCTA
AAGAAGAAAAGCACCAACAACCTTTATGATTGTGTCTGCCACTGGCCAAACATGGCACTTT
GAAGCCACGACGTATGAGGAGCGGGATGCCTGGGTCCAAGCCATCCAGAGCCAGATCCTG
GCCAGCCTGCAGTCATGCGAGAGCAGTAAAAGCAAGTCCCAGCTGACCAGCCAGAGCGAG
GCCATGGCCCTGCAGTCGATCCAAACATGCGTGGGAACGCCCACTGTGTGGACTATGAG
ACCCAGAATCCTAAGTGGGCCAGTTTGAACCTTGGGAGTCCTCATGTGTATTGAATGCTCA
GGAATCCACCGCAGTCTTGGCACCCGCTTTCCCGTGTGCGATCTCTGGAGCTGGATGAC
TGGCCAGTTGAGCTCAGGAAGGTTATGTCATCTATTGGCAATGACCTAGCCAACAGCATC
TGGGAAGGGAGCAGCCAGGGGCGAGACAAACCCCTCAGTAAAGTCCACGAGGGAAGAGAAG
GAACGGTGGATCCGTTCCAAATATGAGGAGAAGCTCTTTCTGGCCCCACTACCTGCACT
GAGCTGTCCCTGGGCCAGCACCTGCTGCGGGCCACCGCTGATGAGGACCTGCAGACAGCC
ATCCTGCTGCTGGCACATGGCTCCCGTGAGGAGGTGAACGAGACCTGTGGGGAGGGAGAC
GGCTGCACGGCGCTCCATCTGGCCTGCCGCAAGGGGAATGTGGTCTTGGCACAGCTCCTG
ATCTGGTACGGGGTGGACGTATGGCCCCGAGATGCCACGGAACACAGCGCTGACCTAC
GCCCGGCAGGCCTCCAGCCAGGAGTGCATCAACGTGCTTCTGCAGTACGGCTGCCCCGAC
GAGTGCGTGTAG

Gene 187. >ENST00000333366 cDNA sequence

CTGGTCATCTACAGCCGCTCCTTCCTGGAGTACAACAGCTGGCATGTGCTCAGCTCCGTC
AACATCTGCTGCTCCAAGCTGGTGAAGTGCCGGCTGCAGAAGGGCAAGGTGACCATTGCA
GAGTTCATCTGGCTGGCCACACGCAGCCAAATGGAGGCCACTGAGCCACAGGATATGGTG
GTCTATGACCAGAGCACACGGGACGCCAGTGTGCTGGCCGAGACCGCTTCCTCTCCATC
CTGCTGAGCAAGCTGGACAGCTGCTTCGACAGCGTGGCCATCCTCACGGGGGGCTTCGCC
ACCTTCTCCTCCTGCTTCCCCAGCCTCTGCCAGGGCAAGCCTGCTGCCCTGCTACCCATG
AGCCTCTCCCAGCCCTGCCTGCCCGTGCTAGCGTGAGCCTGACCCTCATCCTGCCTCAC
CTCTACCTGGGCTCGCAGAAAGACGTTCTGAACAAGGATCTGACGACACAGAATGGAATA
AGCTACGTCTCAATGCCAGCAACTCCTGCCCCAAGCCTGACTTCATCTGCGAGAGCCGC
TTCATGCGGGTCCCCATCAACGACAACACTACTGTGAAAAGCTGCTGCCCTGGCTGGACAAG
TCTATGGAGTTCATCTGTAAAGGCAAGCTGTCCAGCTGCCAAGTCATCGTCCACTGTCTG
GTCGGTATCTCCCACTCTGCCACCATCGCCATCGCCTACATCATGAAGACCATGGGCATA
TCCTCCGACGACACCTACAGGTTTCATGAAGGATAGGCGCCAGTCCATCTCGCCCAACTTC

FIGURE 1 (CONT'D)

AACTTCCTGGGCCAGCTGCTGGAATCAAGCGCTGCAGCTGCCAGATGGAGTTCGAGGAGG
GCATCCTGGAGGGGCGCACTCGCGGCGAGGAGCTGGCCGCCATGGGCAAGCAGGCGAGCT
TCTCGGGCAGCGTGGAGGTCATCGAGATGTCCTGACCCCTCCGCTGCCCTT

Gene 188. >ENST00000332341 cDNA sequence

CTGGTCATCTACAGCCGCTCCTTCCTGGAGTACAACAGCTGGCATGTGCTCAGCTCCGTC
AACATCTGCTGCTCCAAGCTGGTGAAGTGCCGGCTGCAGAAGGGCAAGGTGACCATTGCA
GAGTTCATCTGGCTGGCCACACGCAGCCAAATGGAGGCCACTGAGCCACAGGATATGGTG
GTCTATGACCAGAGCACACGGGACGCCAGTGTGCTGGCCGAGACCGCTTCCTCTCCATC
CTGCTGAGCAAGCTGGACAGCTGCTTCGACAGCAAAGACGTTCTGAACAAGGATCTGACG
ACACAGAATGGAATAAGCTACGTCCTCAATGCCAGCAACTCCTGCCCCAAGCCTGACTTC
ATCTGCGAGAGCCGCTTCATGCGGGTCCCCATCAACGACAACTACTGTGAAAAGCTGCTG
CCCTGGCTGGACAAGTCTATGGAGTTCATCTGTAAAGGCAAGCTGTCCAGCTGCCAAGTC
ATCGTCCACTGTCTGGTTCGGTATCTCCCACTCTGCCACCATCGCCATCGCCTACATCATG
AAGACCATGGGCATATCCTCCGACGACACCTACAGGTTTCATGAAGGATAGGCGCCAGTCC
ATCTCGCCCAACTTCAACTTCCTGGGCCAGCTGCTGGAATCAAGCGCTGCAGCTGCCAGA
TGGAGTTCGAGGAGGGCATCCTGGAGGGGCGCACTCGCGGCGAGGAGCTGGCCGCCATGG
GCAAGCAGGCGAGCTTCTCGGGCAGCGTGGAGGTCATCGAGATGTCCTGACCCCTCCGCT
GCCCTT

Gene 189. >ENST00000326185 cDNA sequence

ATGGAGCTGATGTTTGAGAGTGGGAGGACGGAGAGCGCTTCTCATTGAGGATTTCGGAC
CGTTTTGAGGAGGATTCACTCTGTTTCCTTCATCTCCGAGGCCGAGAGCCTCTGCCAGAAC
TGGCGGGGATGGCGCAAACAGTCAGCGGGGCCCAATTCCCCCACTGGCGGCGGTGGCGGA
GGTGGCAGTGGCGGTACCAGAATGCGAGGTGAGAGTGAGCTGGGGGGAAGAGGAGCGGCA
GGCCCTGCTTGGGCCTCGCTCGGGAGCTGTCCGGGACCAGGAGCTGTCCCGACCAAGAG
CTCTCTTCAACCAGGGGAAGAAAGGGGAGCTGTCCCCGCGCGGAGCTGTCCCCGACTGG
GAGCTGTCCCAAGCTTAG

Gene 190. >ENST00000310182 cDNA sequence

ACCGCAAAGCCTGCCGGGAGCTTGGTGCCTATGGCGACACCCAGCCTGCGGGGTCTGCT
GGCGCGGTTTGGGAACCCGCGGAAGCCTGTGCTGAAGCCCAATAAACCTCTCATTCTAGC
TAACCGCGTCGGGGAGCGGCGCCGGGAGAAGGGCGAGGCGACTTGTCATCAGGAGATGTC
GGTGATGATGGCTTGCTGGAAGCAGAATGAATTCCGCGACGATGCGTGCAGAAAAGAGAT
CCAGGGCTTCTCGATTGTGCCGCGAGGGCTCAGGAAGCCCGAAAGATGAGATCAATACA
GGAAACCTGGGAGAGTCTGGGAGTTTACTTCCAAATAAATTGAATAAGTTGTTACAGAG
GTTTCCTAACAAACCTTACCTCAGCTGA

Gene 191. >ENST00000309979 cDNA sequence

GGGCGGGGCGCGGAGCCCGCCGTCTCGGAGGCCGCGGCTCGGCCCGGCACTGCGGAGGGC
CGCTTGATTTCCCGGAACCCAGGTGCGCGGCTGCTAGGGCCGGAGCCGGTGGATCCGAG
CGGGTGCCACCAGCGGCGGCGCGCCGCTCCCCCGGTGGGAGCGGTGGTTGGGCCAGGCT
GCGGCAGAGCGTTGCTCGGAGATGGCGGAGCAGCCGCGACGCGGCCCGTGGCCCCGAAA
GCAGGGAAGCCGGGCGAGCCCGGGACGCGGCGGAGCCCGGGGACAGCGGGGACGCGGCC
AGTCCTCCGGGTATGAAGCTAAAATGCAGCGGCTAA

Gene 192. >ENST00000313749 cDNA sequence

GGAGCCTGGGAGCCTTGACGTTAGGAACGAAGTCTAACCTGGATCTGGAGCCGGGTGAGA
TCAAATTGGGAATGCTTTCATAATGAACGTCAACCAGTCAGTTCACCTGTGCCACCATT
TGGGCAGCCCCAGCCCATCTACCCAGGGTATCATCAGTCCAGCTATGGTGGGCAATCAGG
GTCCACAGCCCCCGCCATTCCCTATGGAGCCTACAATGGCCCAGTACCAGGCTATCAGCA
AACACCTCCCCAAGGTATGTCAAGAGCCCCACCTTCCTCGGGGGCACCTCCAGCCTCAAC
AGCACAGGCTCCTTGTGGCCAGGCTGCATATGGCCAGTTTGGCCAAGGAGATGTACAGAA
TGGGCCAAGCTCCACTGTTTCAGATGCAAAGGCTGCCTGGGTCTCAGCCATTGTTGGGTCCCC
ATTGGCCCCCTGTGGGCAACAGCCACCTGTGCTTCAGCCCTATGGCCCTCCCCCGACAAG
TGCACAGGTGGCTACGCAGCTGTCTGGAATGCAGATCAGCGGTGCTGTGGCCCCAGCCCC
TCCTTCTTCAGGGCTGGGCTTTGGCCCAACATCGCTGGCTTCAGCCTCAGGAAGTTT
CCCTAACTCTGGTCTGTATGGCTCCTATCCTCAGGGCCAGGCTCCTCCCTTAGCCAGGC
CCAAGGTCATCCTGGGATCCAGACTCCCCAGCGATCTGCCCCATCACAGGCCTCCAGCTT

FIGURE 1 (CONT'D)

CACACCCCCAGCTTCAGGGGGTCTCGGCTGCCTTCGATGACTGGTCCACTCCTGCCTGG
ACAGAGTTTTGGAGGGCCCTCAGTGAGCCAGCCCAACCATGTGTCTTCACCTCCTCAAGC
TCTGCCCCCTGGCAGCCAGATGACTGGGCCCCTGGGACCACTGCCACCTATGCACTCCCC
GCAGCAGCCAGGCTATCAGCCCCAACAAAATGGTTCTTCGGACCAGCCCGGGGCCCTCA
GTCTAATTATGGAGGGCCCTACCCAGCAGCAGCCACCTTTGGCAGTCAGCCTGGGCCTCC
TCAGCCACTGCCTCCTAAGCGCCTGGACCCTGATGCCATCCCAAGCCCTATTAGGTTCAT
TGAAGATGACAGGAACAACCGGGGTACAGAGCCATTTGTTACTGGAGTACGGGGCCAGGT
GCCACCCTTAGTCACTACCAACTTCCTGGTGAAAGACCAAGGGAATGCAAGTCCCCGATA
CATCCGATGTACATCCTATAATATCCCTTGACATCTGACATGGCTAAGCAGGCTCAGGT
GCCCCCTGGCAGCAGTCATCAAACCGCTGGCAAGGCTGCCCCAGAGGAGGCTTACCCTGA
TGTTGTGGACCATGGGGAATCTGGCCCTTTGCGCTGCAACCGCTGCAAAGCATACATGTG
TCCCTTCATGCAGTTTCATTGAAGGAGGGAGGCGTTTCCAGTGCTGTTTTTGCAGCTGTAT
CAATGATGTTCCCCCCAGTATTTTCAGCACCTGGATCATACCGCAAACGTGTGGATGC
TTATGACCGCCCTGAGCTATCCCTGGGCTCTTATGAATTCTTGGCCACTGTAGATTACTG
CAAGAACAATAAGTTCCCCAGCCCTCCTGCCTTTATCTTCATGATTGACGTCTCCTACAA
TGCCATCAGGACTGGTCTTGTTAGGCTCCTCTGTGAGGAGCTCAAGTCACTGTTAGACTT
TCTACCTAGGGAGGGTGGGGCAGAAGAGTCAGCAATCCGCGTTGGCTTTGTACCTACAA
TAAGGTGCTCCACTTCTATAATGTGAAGAGCTCATTGGCCAGCCACAGATGATGGTTGT
GTCTGATGTGGCTGACATGTTTGTGCCACTGCTGGATGGCTTCTGGTCAACGTCAATGA
GTCTCGGGCAGTTATCACCAGCTTATTGGATCAGATTCCAGAAATGTTTGCAGACACAAG
GGAAACAGAGACAGTATTTGTACCAGTTATCCAGGCTGGAATGGAGGCTCTGAAGGCTGC
TGAGTGTGCAGGGAAGCTCTTTCTATTCCATACATCCCTGCCATTGCAGAGGCCCCAGG
GAAACTGAAGAACAGAGATGACAGGAAGCTGATCAATACAGACAAGGAGAAGACTCTGTT
CCAGCCTCAGACAGGTGCCTATCAGACCCTGGCCAAAGAGTGTGTGGCCCAAGGCTGCTG
TGTAGATCTCTTTCTCTTCCCTAACCAAGTATGTGGATGTGGCCACACTCTCTGTTGTGCC
CCAGCTCACTGGTGGCTCTGTCTACAAATATGCTTCTTTTCAGGTGGAGAACGACCAGGA
GCGGTTCTCTGAGTGACCTGCGTCTGTGATGTCCAGAAGGTTGTTGGCTTTGATGCTGTGAT
GCGGGTCCGGACAAGCACTGGTATCCGTGCTGTAGATTTCTTTGGAGCTTTCTACATGAG
CAACACGACAGATGTGGAGCTGGCTGGGCTAGATGGGGACAAAACAGTGACTGTGGAGTT
CAAGCATGACGATCGGCTCAATGAAGAGAGCGGAGCTCTCCTGCAGTGTGCCCTGCTTTA
CACCAGCTGTGCAGGGCAGCGTCCGGCTCCGCATCCATAATCTGGCCCTGAACTGCTGCAC
CCAGCTGGCTGATCTATATCGAAACTGTGAGACTGACACGCTCATCAACTACATGGCCAA
GTTTGCATATCGGGGAGTCTCTGAATAGCCCTGTGAAGGCTGTTCTGTGACACGCTCATCAC
CCAGTGTGCCAGATCCTGGCCTGTTACAGAAAGAACTGTGCTAGCCCCCTCCTCTGCAGG
ACAGTTGATCCTTCTGAGTGCATGAAGCTACTCCCAGTTTACCTGAACTGTGTGTTGAA
GAGTGATGTCTGCAGCCTGGAGCTGAAGTCACTACTGATGACCGTGCCTATGTCCGACA
GCTAGTTACCTCCATGGATGTGACTGAGACCAATGTCTTCTTCTACCCTCGGCTCTTACC
TTTGACAAAGTCTCCCGTTGAGAGTACTACCGAACCAACAGCAGTTTCGAGCCTCTGAAGA
GCGTCTAAGCAATGGGGATATATATTTACTGGAGAATGGGCTCAACCTCTTCTCTGGGT
GGGAGCAAGCGTCCAACAGGGTGTGTCCAGAGCCTTTTCAGCGTCTCCTCCTTCAGTCA
GATCACCAGTGGTTTGTAGTGTCTGCCAGTTCTGGATAATCCACTGTCCAAGAAGGTTTCG
AGGCCTCATTGATAGCTTAGGCACAGAGATCCCGGTACATGAAGCTTACCGTGGTGAAAC
AGGAAGACAAGATGGAGATGCTGTTCAAGCACTTCTCTGGTGGAAGACAAGAGTCTGAGTG
GGGGAGCATCTTATGTGGACTTTCTCTGTGCATATGCACAAGGAGATTGGGCAGCTACTGA
GCTAAAGCAAGTGGGTAAATGGCATAGGGCCCAGGCTAGCTTCCAGAAAGCACCCCAGGA
TGTCAGAGAAATTGGGACAGTAACATATCTTATGTAA

Gene 193. >ENST00000309967 cDNA sequence

GGCACCCGCTCGGATCCACCGGCTCCGGCCCTAGCAGCCGCGGACCTGGGTTCCGGGAA
ATCAAGCGGCCCTCCGAGTGCCGGGCCGAGCCGCGGCCTCCGAGACGGCGGGCTCCGCG
CCCCGCCCGCGGAAGCGCACCCCTCCTCTCCGCGGATGGCACTGCCGGCCGAGCGTCG
GGGACCACGACTTCGGAGCAGGGGCGGGCTCAGGCCTGGGCTCATCCACTCAGCCCCGCG
GAGGGGGAGCCGGGCCGGCCCACTCGGGGGAGGGGAGGAGTAAGAGGC

Gene 194. >ENST00000299641 cDNA sequence

AGGTAGAGGGGAAGAGATTGAACTTTGCTGACCTTTGATGTGAGGCGCTCAGCCAGGGCC

FIGURE 1 (CONT'D)

AAGGGGAGAGCCTGGCAAGATTTGCAGCCTGAAGCCATGGGCCAGGGGGCCATGGTGACC
 TGAGACAAGTGGACTCTGTATAGTTGCCCCCTGCTTCCCCTTCTACCTCCCCTACCCTAT
 GCTAAGGGGACTCGTCTCCACCTCGTAAAGGAAACTCCCCAAGGGAATCCCTGTCCCCTA
 TTTTCCTATCCTTCTACCTTCCAAGACAGTCCTAGCCTATAGAACTCCTACCTCCCATC
 CCCTGAGGTGGTCCCCATTCTCCCTCCCTTCTCCCCCGCCATGCTCCAGTTGTGGAA
 GGTGGTACGCCCAGCTCGGCAGCTGGAAGTGCACCGCCTCATACTGCTGCTGATCGCTTT
 CAGCCTGGGCTCCATGGGCTTCTGGCTTATTATGTGTCCACCAGCCCTAAGGCCAAGGA
 ACCCTTGCCCCCTGCCCTTGGGAGACTGCAGCAGCGGTGGGGCAGCTGGTCCTGGCCCTGC
 ACGGCCTCCAGTTCCACCTCGGCCCCCAGGCCTCCAGAGACAGCTCGAACTGAACCCGT
 GGTCTTGTGTTTTGTGGAGAGTGCATACTCACAGCTGGGGCAGGAAATTGTGGCCATCCT
 GGAGTCTAGTCGTTTTCTGTTATAGCACTGAGTTGGCACCTGGCCGAGGGGACATGCCAC
 ATTGACTGATAATACCCATGGCCGCTATGTCTTGGTCATTTATGAGAACCTGCTCAAGTA
 TGTCAACCTGGATGCCTGGAGTCGGGAACTGCTAGACCGGTACTGCGTGGAGTATGGTGT
 GGGCATCATTGGCTTTTTCCGAGCCCACGAGCACAGCCTACTGAGCGCCAGCTCAAGGG
 CTTTTCCCCTTTTTTACACTCAAACCTTGGGGCTCCGGGACTACCAAGTGAATCCTTCTGC
 CCCGCTACTGCATCTCACACGCCCCAGCCGCTAGAACCAGGGCCACTGCCTGGTGATGA
 CTGGACCATCTTCCAATCCAATCATAGTACATATGAACCAGTGCTTCTTGCCAGCCTTCG
 GCCAGCTGAGCCCGCAGTGCCAGGACCAGTTCTTCGTCGGGCCCGGCTTCCCACTGTGGT
 ACAGGACCTGGGGCTTCATGATGGCATCCAGCGGGTGCTCTTTGGACATGGCCTTTCCTT
 CTGGCTCCACAACTTATCTTCTGTTGATGCTGTTGCATACCTCACTGGCAAGCGCCTCTG
 CCTGGACCTTGACCGCTACATCTTGGTAGACATCGATGACATCTTTGTGGCAAGGAAGG
 GACCCGCATGAAGGTGGCTGATGTTGAGGCTCTGTTGACCACCCAGAACAAACTCAGGAC
 CTTAGTTCCCAACTTCACTTCAACTTGGGCTTCTCGGGCAAGTTCTATCATACTGGGAC
 AGAGGAGGAGGATGCAGGGGACGACATGCTGCTGAAGCACCGCAAAGAGTTCTGGTGGTT
 CCCCCACATGTGGAGCCACATGCAGCCACACCTGTTCCACAATCGCTCCGTGCTGGCTGA
 CCAGATGAGGCTCAACAAACAGTTTGTCTCTGGAGCATGGGATTCCCACGGACCTGGGGTA
 TGCTGTGGCCCCCACCCTCGGGTGTGTACCCCATCCACACGCAGCTCTATGAGGCCTG
 GAAATCCGTGTGGGGCATCCAGGTGACCAGCACTGAGGAGTATCCCCATCTCCGCCCTGC
 CCGCTACCGCCGTGGCTTCATTCACAATGGCATTATGGTGTGCTGCCCCGGCAGACATGTGG
 CCTCTTCACTCACACAATCTTCTATAATGAGTATCCTGGAGGCTCTCGTGAAGTAGACCG
 GAGCATCCGAGGTGGAGAGCTCTTTCTGACAGTGCTGCTTAATCCGATCAGCATCTTTAT
 GACCCATCTGTCCAATTATGGAAATGACCGGCTGGGCCTATACACCTTTGAGAGCTTGGT
 GCGCTTCTCTCAGTGTTGGACACGGCTGCGCCTACAGACCCTTCTCTGTCTCCACTTGC
 ACAGAAGTACTTTGAACTTTTCCCTCAGGAGCGAAGCCCCCTTTGGCAGAATCCCTGTGA
 TGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGATCGTCTCCCGAAGTT
 CCTCATTGTGGGACCCAGAAAACAGGGACTACAGCTATTCACTTCTTCTGAGCCTGCA
 CCCAGCTGTAACTAGCAGCTTCCCTAGCCCCAGCACATTTGAGGAGATTAGTTCTTCAA
 CAGCCCTAATTACCACAAGGGTATTGACTGGTACATGGATTTCTTCCCTGTTCTTCCAA
 TGCCAGCACTGATTTCTATTTGAAAAAGTGCCACCTACTTTGACTCTGAAGTTGTACC
 ACGGCGGGGGGCTGCCCTCCTGCCACGAGCCAAGATCATCACAGTGCTCACCAACCCTGC
 TGACAGGGCCTACTCCTGGTACCAGCATCAGCGAGCCCATGGAGACCCAGTTGCTCTGAA
 CTATACCTTCTATCAGGTGATTTCAGCCTCCTCCCAGACCCCTCTGGCACTACGCTCCCT
 GCAGAACCCTGTCTTGTCCCTGGCTACTATTCTACCCATCTACAACGCTGGCTGACTTA
 CTACCCCTCTGGACAGTTGCTGATTGTGGATGGGCAAGAGCTGCGTACCAACCCAGCAGC
 CTCAATGGAGAGCATCCAGAAGTTCTTGGGTATCACACCCTTTCTGAACTACACACGGAC
 CCTCAGGTTTGTATGATGATAAGGGATTTTGGTGCCAGGGACTTGAAGGTGGTAAGACTCG
 CTGTCTAGGCCGGAGCAAAGGCCGGAGGTATCCAGATATGGACACTGAGTCCCGTCTTTT
 CCTTACGGATTTTTTCCGGAACCATAATTTGGAGTTGTGGAAGCTGCTGAGCCGGCTTGG
 ACAGCCAGTGCCCTCGTGGCTTCCGGAAGAACTGCAGCATTCCAGTCTGGGCTGATGTCC
 CAGCCTCCCATACCAGCAAAATGCCCCCTGCTTCCCTAAGGGGCAGGTCCAGAGCAGGGC
 CCACAAGGGGGATTAGAGTGGCCTGGCCCCCTCCCCCTCTACCTCAGTAGCCCCCAGGCCT
 GAGATGGCTGAGAAGGGAAGGGTATCCTTTTCCACAGTTCTGGGACAAATAAAGGGGCT
 TCCTTTGGTACCCACATAATAGTGCTAGGTACCTTTGACCCATCATCTTGGGAGGTGGG
 GAGGAATGAGAGGTCAGGCAGGGTGTAGGGGAATGTATTAGTCCAATGAGATTTCCCT

FIGURE 1 (CONT'D)

CTTCATCCGCAGCAGTGTATCTATTCTATACCTGGCTATGGGAGAGACCCCTTG CATGGG
AGGGACCCCTTGCTATGGCCCTTTAGCCAGGCAGTGGGATCTACCTGTGGCCCGGCCTC
CCTAATGTCAATTCACATTGAATGGGGATGAGGTTCGGACAGTGGCTCATAGAGCCGAGTAT
GAGCCCTAGCTGTGGGCTAGAAATGTCCTTAATAAACATCCTTATTTTTCTGTTT
Gene 195. >ENST00000322680 cDNA sequence
AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGG
CGGTGACTGTGCACCGACGTCCGGCGGGGCTGCACCGCCGCGTCCGCCCGCCGCCAGCA
TGGCCACCACCGCCACCTGCACCCGTTTCACCGACGACTACCAGCTCTTCGAGGAGCTTG
GCAAGGGTGCTTTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
AGGCTCGGATATGTGCACTTCTGAAACATCCAAACATCGTGCCTCCATGACAGTATTT
CTGAAGAAGGGTTTTCACTACCTCGTGTGTTGACCTTGTTACCGCGGGGAGCTGTTTGAAG
ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTC
TGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCTCAAGCTGGCTGATTTTGGCCTAG
CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCG
GGGTCACTCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
TAACTCCTGAAGCCAAGAAGTTGATCAACCAGATGCTGACCATAAACCCAGCAAAGCGCA
TCACGGCTGACCAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCA
TGATGCATCGTCAGGAGACTGTGGAGTGTGTTGCGCAAGTTCAATGCCCGGAGAAAACTGA
AGGGTGCCATCCTCAGCACCATGCTTGTCTCCAGGAAGTTCTCAGCTGCCAAAAGCCTAT
TGAACAAGAAGTCGGATGGCGGTGTCAAGCCACAGAGCAACAACAAAAACAGTCTCGTAA
GCCCAGCCCAAGAGCCCGCGCCCTTGACAGACGGCCATGGAGCCACAAACCACTGTGGTAC
ACAACGCTACAGATGGGATCAAGGGCTCCACAGAGAGCTGCAACACCACCACAGAAGATG
AGGACCTCAAAGCTGCCCCGCTCCGCACTGGGAATGGCAGCTCGGTGCCTGAAGGACGGA
GCTCCCCGGGACAGAAACAGCCCCCTCTGCAGGCATGCAGCCCCAGCCTTCTCTGCTCCT
CAGCCATGCGAAAACAGGAGATCATTAAGATTACAGAACAGCTGATTGAAGCCATCAACA
ATGGGGACTTTGAGGCCTACACGAAGATTTGTGATCCAGGCCTCACTTCCTTTGAGCCTG
AGGCCCTTGGTAACCTCGTGGAGGGGATGGATTTCCATAAGTTTTACTTTGAGAATCTCC
TGTCCAAGAACAGCAAGCCTATCCATAACCACCATCTAAACCCACACGTCCACGTGATTG
GGGAGGACGCAGCGTGCATCGCCTACATCCGCCTCACCAGTACATCGACGGGCAGGGTC
GGCCTCGCACCAGCCAGTCAGAAGAGACCCGGGTCTGGCACCGTCCGGGATGGCAAGTGGC
TCAATGTCCACTATCACTGCTCAGGGGCCCCCTGCCGCACCGCTGCAGTGAGCTCAGCCAC
AGGGGCTTTAGGAGATTCCAGCCGGAGGTCCAACCTTCGCAGCCAGTGGCTCTGGAGGGC
CTGAGTGACAGCGGCAGTCTGTTTGTGTTGAGGTTTAAAAACAATTCAATTACAAAAGCGG
CAGCAGCCAATGCACGCCCCCTGCATGCAGCCCTCCCGCCCCCCTTCGTGTCTGTCTCTG
CTGTACCGAGGTGTTTTTTTACATTTAAGAAAAAAGAAAAAAGATTGTTTAAAA
AAAAAAGGAATCCATACCATGATGCGTTTTTAAACCACCGACAGCCCTTGGGTGGCAAG
AAGGCAGGAGTATGTATGAGGTCCATCCTGGCATGAGCAGTGGCTCACCCACCGGCCTTG
AAGAGGTGAGCTTGGCCTCTCTGGTCCCCATGGACTTAGGGGGACCAGGCAAGAACTCTG
ACAGAGCTTTGGGGGCCGTGATGTGATTGCAGCTCCTGAGGTGGCCTGCTTACCCAGGT
CTAGGAATGAACTTCTTTGGAACCTGCATAGGCGCCTAGAATGGGGCTGATGAGAACATC
GTGACCATCAGACCTACTTGGGAGAGAACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCT
GAGAAGTGGTGGCCTCAGGACTGAGAGCCCGGACGTTGCTGTACTGTCTTGTGTTAGTGTA
GAAGGGAAGAGAATTGGTGCTGCAGAAGTGTACCCGCCATGAAGCCGATGAGAAACCTCG
TGTTAGTCTGACATGCACTCACTCATCCATTTCTATAGGATGCACAATGCATGTGGGCC
TAATATTGAGGCCTTATCCCTGCAGCTAGGAGGGGGAGGGGTTGTTGCTGCTTTGCTTCG
TGTTTTCTTCTAACCTGGCAAGGAGAGAGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCT
TTGGCGGTTCTGTTTCTGTGCTGATCTGGACCATCTTGTCTTGCTTTTACGGTAGTG
GTCCCATGCTGACCTCATCTGGCCTGGGCCCTTGCCAAGTGCCCTGTGGGATGGG
AGGAGTGAGGCAGTGGGAGAAGAGGTGGTGGTCTGTTTCTATGCATTGAGGCTGCCTTTGG
GGCTGCCTCCCTTCTTATTCTTCTTCTTCTGCTGCACGTCCATCTCTTTCTGTCTTTGAGAT

FIGURE 1 (CONT'D)

TGACCTGACTGCTCTGGCAAGAAGAAGAGGTGTCCTTACAGAGGCCTCTTTACTGACCAA
CTGAAGTATAGACTTACTGCTGGACAATCTGCATGGGCATCACCCCTCCCGCATGTAAC
CCAAAAGAGGTGTCCAGAGCCAAGGCTTCTACCTTCATTGTCCCTCTCTGTGCTCAAGGA
GTTCCATTCCAGGAGGAAGAGATCTATACCCTAAGCAGATAGCAAAGAAGATAATGGAGG
AGCAATTGGTCATGGCCTTGGTTTCCCTCAAAACAACGCTGCAGATTTATCTGCACAAAC
ATCTCCACTTTTGGGGGAAAGGTGGGTAGATTCCAGTTCCTGGACTACCTTCAGGAGGC
ACGAGAGCTGGGAGAAGAGGCAAAGCTACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAG
CAGACTCACAGGTGCTGGTGCTTGGATTTAGCCAGGCTCCTCCGAGCACCTCATGCATGT
CCCAGCCCCTGGGCCCTAGCCCTTTCTGCCCCTGCAGTCTGCAGTGCCAGCACGCAAATC
CCTTCACCACAGGGTTTCTGTTTTGCTGGCTTGAAGACAAATGGTCTTAGAATTCATTGAG
ACCCATAGCTTCATATGGCTGCTCCAGCCCCACTTCTTAGCATTCTTACTCCTCTTCTGG
GGCTAATGTGAGCATCTATAGACAATAGACTATTAAAAAATCACCTTTTAAACAAGAAAC
GGAAGGCATTTGATGCAGAATTTTTGCATGACAACATAGAAATAATTTAAAAATAGTGTT
TGTTCTGAATGTTGGTAGACCTTCATAGCTTTGTTACAATGAAACCTTGAAGTAAAAT
ATTTAATAAAATAACCTTTAAACAGTC

Gene 196. >ENST00000305762 cDNA sequence

CCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGGCGGTGACTGTGCACCGACGTCGGCGC
GGGCTGCACCGCCGCGTCCGCCCGCCCGCCAGCATGGCCACCACCGCCACCTGCACCCGT
TTCACCGACGACTACCAGCTCTTCGAGGAGCTTGGCAAGGGGATGATACCCTCTTTTTAA
TCTTTCTTCCCGACCTTCAACTGTTCTGCTGAGAGAAGGGCAGGGTCTCTCTGCTCC
CTTCTGCCCTGGTTCTCTTGGCCGGGACCGCAGGGCTGTCTGAGATGCAGCAGGTGTGCT
TTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACGCAGCAAAAATC
ATCAATACCAAGAAGTTGTCTGCCCAGGATCACCAAGAACTAGAACGTGAGGCTCGGATA
TGTCGACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTTCTGAAGAAGGG
TTTCACTACCTCGTGTTTTGACCTTGTTACCGGCGGGGAGCTGTTTGAAGACATTGTGGCC
AGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTCTGGAGAGTGTT
AACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGAACCTGCTGCTG
GCGAGTAAATGCAAGGGTGCCGCCGCTCAAGCTGGCTGATTTTGGCCTAGCCATCGAAGTA
CAGGGAGAGCAGCAGGCTTGGTTTTGGTTTTGTGGCACCCAGGTTACTTGTCCCCTGAG
GTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCGGGGTATCCTG
TATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACAAGCTGTATCAG
CAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAAGATGGGACACGGTAACTCCTGAA
GCCAAGAAGTTGATCAACCAGATGCTGACCATAAAACCCAGCAAAGCGCATCACGGCTGAC
CAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCATGATGCATCGT
CAGGAGACTGTGGAGTGTTTTGCGCAAGTTCAATGCCCGGAGAAAACCTGAAGGGTGCCATC
CTCACGACCATGCTTGTCTCCAGGAACCTTCTCAGTTGGCAGGCAGAGCTCCGCCCCCGCC
TCGCCTGCCGCGAGCGCCGCCCGCCTGGCCGGGCAAGCTGCCAAAAGCCTATTGAACAAG
AAGTCGGATGGCGGTGTCAAGAAAAGGAAGTCGAGTTCCAGCGTGCACCTAATGCCACAG
AGCAACAACAAAACAGTCTCGTAAGCCAGCCCAAGAGCCCGCGCCCTTGCAGACGGCC
ATGGAGCCACAAACCACTGTGGTACACAACGCTACAGATGGGATCAAGGGCTCCACAGAG
AGCTGCAACACCACCACAGAAGATGAGGACCTCAAAGCTGCCCGCTCCGCACTGGGAAT
GGCAGCTCGGTGCCTGAAGGACGGAGCTCCCGGGACAGAACAGCCCCCTCTGCAGGCATG
CAGCCCCAGCCTTCTCTCTGCTCCTCAGCCATGCGAAAAACAGGAGATCATTAAGATTACA
GAACAGCTGATTGAAGCCATCAACAATGGGGACTTTGAGGCCTACACGAAGATTTGTGAT
CCAGGCCTCACTTCTTTGAGCCTGAGGCCCTTGGTAACCTCGTGGAGGGGATGGATTTT
CATAAGTTTTACTTTGAGAATCTCCTGTCCAAGAACAGCAAGCCTATCCATACCACCATC
CTAAACCCACACGTCCACGTGATTGGGGAGGACGCAGCGTGCATCGCCTACATCCGCCTC
ACCCAGTACATCGACGGGCAGGGTCCGCCTCGCACCAGCCAGTCAGAAGAGACCCGGGTC
TGGCACCGTCGGGATGGCAAGTGGCTCAATGTCCACTATCACTGCTCAGGGGCCCCCTGCC
GCACCGCTGCAGTGAGCTCAGCCACAGGGGGCTTTAGGAGATTCCAGCCGGAGGTCCAAC
CTTCGACGCCAGTGGCTCTGGAGGGCCTGAGTGACAGCGGCAGTCCTGTTTGTTTGAG

Gene 197. >ENST00000322635 cDNA sequence

AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGG
CGGTGACTGTGCACCGACGTCGGCGCGGGCTGCACCGCCGCGTCCGCCCGCCCGCCAGCA

FIGURE 1 (CONT'D)

TGGCCACCACCGCCACCTGCACCCGTTTACCGACGACTACCAGCTCTTCGAGGAGCTTG
GCAAGGGTGCTTTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
AGGCTCGGATATGTGACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTT
CTGAAGAAGGGTTTCACTACCTCGTGTGTTGACCTTGTTACCGGCGGGGAGCTGTTTGAAG
ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTCT
TGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCTCAAGCTGGCTGATTTTGGCCTAG
CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAGAACCTGTGGATATCTGGGCCTGCG
GGGTGATCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
TAACTCCTGAAGCCAAGAAGTTGATCAACCAGATGCTGACCATAAACCCAGCAAAGCGCA
TCACGGCTGACCAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCA
TGATGCATCGTCAGGAGACTGTGGAGTGTGTCGCAAGTTCAATGCCCGGAGAAAAGTGA
AGGGTGCCATCCTCACGACCATGCTTGTCTCCAGGAAGTTCTCAGTTGGCAGGCAGAGCT
CCGCCCCCGCCTCGCCTGCCGCGAGCGCCGCGGCTGGCCGGGCAAGCTGCCAAAAGCC
TATTGAACAAGAAGTCGGATGGCGGTGTCAAGAAAAGGAAGTCGAGTTCCAGCGTGCACC
TAATGGAGCCACAAACCACTGTGGTACACAACGCTACAGATGGGATCAAGGGCTCCACAG
AGAGCTGCAACACCACCACAGAAGATGAGGACCTCAAAGTGCGAAAACAGGAGATCATT
AGATTACAGAACAGCTGATTGAAGCCATCAACAATGGGGACTTTGAGGCCTACACGAAGA
TTTGTGATCCAGGCCTCACTTCCTTTGAGCCTGAGGCCCTTGGTAACTCGTGGAGGGGA
TGGATTTCCATAAGTTTTACTTTGAGAATCTCCTGTCCAAGAACAGCAAGCCTATCCATA
CCACCATCCTAAACCCACACGTCCACGTGATTGGGGAGGACGCAGCGTGCATCGCCTACA
TCCGCCTCACCCAGTACATCGACGGGCAGGGTCCGCCTCGCACCAGCCAGTCAGAAGAGA
CCCGGGTCTGGCACCCGTGCGGATGGCAAGTGGCTCAATGTCCACTATCACTGCTCAGGGG
CCCCTGCCGCACCGCTGCAGTGAGCTCAGCCACAGGGGCTTTAGGAGATTCCAGCCGGAG
GTCCAACCTTCGCAGCCAGTGGCTCTGGAGGGCCTGAGTGACAGCGGCAGTCCTGTTTGT
TTGAGGTTTTAAACAATTCAATTACAAAAGCGGCAGCAGCCAATGCACGCCCCCTGCATGC
AGCCCTCCCGCCCGCCCTTCGTGTCTGTCTCTGCTGTACCGAGGTGTTTTTTACATTTAA
GAAAAAAAAAAAAAGAAAAAAGATTGTTTTAAAAAAAAAAGGAATCCATACCATGATGCGT
TTTTAAACCCAGCAGCCCTTGGGTTGGCAAGAAGGCAGGAGTATGTATGAGGTCCATC
CTGGCATGAGCAGTGGCTCACCCACCGGCCTTGAAGAGGTGAGCTTGGCCTCTCTGGTCC
CCATGGACTTAGGGGGACAGGCAAGAACTCTGACAGAGCTTTGGGGGCCGTGATGTGAT
TGCAGCTCCTGAGGTGGCCTGCTTACCCAGGTCTAGGAATGAACTTCTTTGGAACTTGC
ATAGGCGCCTAGAATGGGGCTGATGAGAACATCGTGACCATCAGACCTACTTGGGAGAGA
ACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCTGAGAAGTGGTGGCCTCAGGACTGAGAG
CCCGGACGTTGCTGTACTGTCTTGTGTTAGTGTAGAAGGGAAGAGAATTGGTGTGTCAGAA
GTGTACCCGCCATGAAGCCGATGAGAAACCTCGTGTTAGTCTGACATGCACTCACTCATC
CATTTCTATAGGATGCACAATGCATGTGGGCCCTAATATTGAGGCCTTATCCCTGCAGCT
AGGAGGGGGAGGGGTTGTTGCTGCTTTGCTTCGTGTTTTCTTCTAACCTGGCAAGGAGAG
AGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCTTTGGCGGTTCTGTTTCTGTGCTGATCT
GGACCATCTTTGTCTTGCCCTTTTACGGTAGTGGTCCCATGCTGACCCTCATCTGGGCC
TGGGCCCTCTGCCAAGTGCCCTGTGGGATGGGAGGAGTGAGGCAGTGGGAGAAGAGGTG
GTGGTCTGTTTTCTATGCATTACAGGCTGCCTTTGGGGCTGCCTCCCTTCTTATTCTTCTTG
CTGCACGTCCATCTTTTTCTGTCTTTGAGATTGACCTGACTGCTCTGGCAAGAAGAAG
AGGTGTCTTTACAGAGGCCTCTTTACTGACCAACTGAAGTATAGACTTACTGCTGGACAA
TCTGCATGGGCATCACCCCTCCCGCATGTAACCCAAAAGAGGTGTCCAGAGCCAAGGCT
TCTACCTTCATTGTCCCTCTCTGTGCTCAAGGAGTTCATTCCAGGAGGAAGAGATCTAT
ACCCTAAGCAGATAGCAAAGAAGATAATGGAGGAGCAATTGGTCATGGCCTTGGTTTCCC
TCAAAACAACGCTGCAGATTTATCTGCACAAACATCTCCAATTTTGGGGGAAAGGTGGGT
AGATTCCAGTTCCCTGGACTACCTTCAGGAGGCACGAGAGCTGGGAGAAGAGGCAAAGCT
ACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAGCAGACTCACAGGTGCTGGTGTCTGGAT
TTAGCCAGGCTCCTCCGAGCACCTCATGCATGTCCAGCCCTGGGCCCTAGCCCTTTCC

FIGURE 1 (CONT'D)

TGCCCTGCAGTCTGCAGTGCCAGCACGCAAATCCCTTCACCACAGGGTTTCGTTTTGCTG
GCTTGAAGACAAATGGTCTTAGAATTCATTGAGACCCATAGCTTCATATGGCTGCTCCAG
CCCCACTTCTTAGCATTCTTACTCCTCTTCTGGGGCTAATGTGAGCATCTATAGACAATA
GACTATTAAAAAATCACCTTTTAAACAAGAAACGGAAGGCATTTGATGCAGAATTTTTGC
ATGACAACATAGAAATAATTTAAAAATAGTGTTTGTCTGAATGTTGGTAGACCCCTTCAT
AGCTTTGTTACAATGAAACCTTGAAGTGAATAATTTAATAAAATAACCTTTAAACAGTC
Gene 198. >ENST00000277853 cDNA sequence
AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGG
CGGTGACTGTGCACCGACGTCCGGCGGGGCTGCACCGCCGCGTCCGCCCGCCCGCCAGCA
TGGCCACCACCGCCACCTGCACCCGTTTACCGACGACTACCAGCTCTTCGAGGAGCTTG
GCAAGGGTGCTTTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
AGGCTCGGATATGTGACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTT
CTGAAGAAGGGTTTCACTACCTCGTGTTTGACCTTGTTACCGGCGGGGAGCTGTTTGAAG
ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTCT
TGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCTCAAGCTGGCTGATTTTGGCCTAG
CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCG
GGGTCACTCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
TAACTCCTGAAGCCAAGAACTTGATCAACCAGATGCTGACCATAAACCCAGCAAAGCGCA
TCACGGCTGACCAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCA
TGATGCATCGTCAGGAGACTGTGGAGTGTGTGCGCAAGTTCAATGCCCGGAGAAAACCTGA
AGGGTGCCATCCTCACGACCATGCTTGTCTCCAGGAACTTCTCAGCTGCCAAAAGCCTAT
TGAACAAGAAGTCGGATGGCGGTGTCAAGGAGCCACAAACCACTGTGGTACACAACGCTA
CAGATGGGATCAAGGGCTCCACAGAGAGCTGCAACACCACCACAGAAGATGAGGACCTCA
AAGTGCGAAAACAGGAGATCATTAAAGATTACAGAACAGCTGATTGAAGCCATCAACAATG
GGGACTTTGAGGCCTACACGAAGATTTGTGATCCAGGCCTCACTTCCTTTGAGCCTGAGG
CCCTTGGTAACCTCGTGGAGGGGATGGATTTCCATAAGTTTTACTTTGAGAATCTCCTGT
CCAAGAACAGCAAGCCTATCCATACCACCATCCTAAACCCACACGTCCACGTGATTGGGG
AGGACGCAGCGTGCATCGCCTACATCCGCCTCACCCAGTACATCGACGGGCAGGGTCCGGC
CTCGCACCCAGCCAGTCAGAAGAGACCCGGGTCTGGCACCCGTCCGGGATGGCAAGTGGCTCA
ATGTCCACTATCACTGCTCAGGGGCCCCCTGCCGCACCGCTGCAGTGAGCTCAGCCACAGG
GGCTTTAGGAGATTCCAGCCGGAGGTCCAACCTTTCGAGCCAGTGGCTCTGGAGGGCCTG
AGTGACAGCGGCAGTCTGTTTTGTTTGGAGTTTAAAAACAATTCAATTACAAAAGCGGCAG
CAGCCAATGCACGCCCCCTGCATGCAGCCCTCCCGCCCCGCTTTCGTGTCTGTCTCTGCTG
TACCGAGGTGTTTTTTACATTTAAGAAAAAAGAAAAAAGATTGTTTTAAAAAAA
AAAGGAATCCATACCATGATGCGTTTTAAACCACCGACAGCCCTTGGGTTGGCAAGAAG
GCAGGAGTATGTATGAGGTCCATCCTGGCATGAGCAGTGGCTCACCCACCGGCCTTGAAG
AGGTGAGCTTGGCCTCTCTGGTCCCCATGGACTTAGGGGGACCAGGCAAGAACTCTGACA
GAGCTTTGGGGGCCGTGATGTGATTGCAGCTCCTGAGGTGGCCTGCTTACCCAGGTCTA
GGAATGAACTTCTTTGGAACCTGCATAGGCGCCTAGAATGGGGCTGATGAGAACATCGTG
ACCATCAGACCTACTTGGGAGAGAACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCTGAG
AAGTGGTGGCCTCAGGACTGAGAGCCCGACGTTGCTGTACTGTCTTGTGTTAGTGTAGAA
GGGAAGAGAATTGGTGCTGCAGAAGTGTACCCGCCATGAAGCCGATGAGAAACCTCGTGT
TAGTCTGACATGCACTCACTCATCCATTTCTATAGGATGCACAATGCATGTGGGCCCTAA
TATTGAGGCCTTATCCCTGCAGCTAGGAGGGGGAGGGGTGTTGCTGCTTTGCTTCGTGT
TTTCTTCTAACCTGGCAAGGAGAGAGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCCTTTG
GCGGTTCTGTTTCTGTGCTGATCTGGACCATCTTTGTCTTGCCCTTTTACGGTAGTGGTC
CCCATGCTGACCCTCATCTGGGCCTGGGCCCTCTGCCAAGTGCCCTGTGGGATGGGAGG
AGTGAGGCAGTGGGAGAAGAGGTGGTGGTCTTTCTATGCATTACAGGCTGCCTTTGGGGC
TGCCTCCCTTCTTATTCTTCCTTGCTGCACGTCCATCTCTTTTCTGTCTTTGAGATTGA
CCTGACTGCTCTGGCAAGAAGAAGAGGTGTCTTACAGAGGCCTCTTTACTGACCAACTG

FIGURE 1 (CONT'D)

AAGTATAGACTTACTGCTGGACAATCTGCATGGGCATCACCCCTCCCCGCATGTAACCCA
 AAAGAGGTGTCCAGAGCCAAGGCTTCTACCTTCATTGTCCCTCTCTGTGCTCAAGGAGTT
 CCATTCCAGGAGGAAGAGATCTATACCCTAAGCAGATAGCAAAGAAGATAATGGAGGAGC
 AATTGGTCATGGCCTTGGTTTCCCTCAAAACAACGCTGCAGATTTATCTGCACAAACATC
 TCCACTTTTGGGGGAAAGGTGGGTAGATTCCAGTTCCCTGGACTACCTTCAGGAGGCACG
 AGAGCTGGGAGAAGAGGCAAAGCTACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAGCAG
 ACTCACAGGTGCTGGTGTCTGGATTTAGCCAGGCTCCTCCGAGCACCTCATGCATGTCCC
 AGCCCTGGGCCCTAGCCCTTTCTGCCCTGCAGTCTGCAGTGCCAGCACGCAAATCCCT
 TCACCACAGGGTTTTCGTTTTGCTGGCTTGAAGACAAATGGTCTTAGAATTATTGAGACC
 CATAGCTTCATATGGCTGCTCCAGCCCCACTTCTTAGCATTCTTACTCCTCTTCTGGGGC
 TAATGTGAGCATCTATAGACAATAGACTATTAAAAAATCACCTTTTAAACAAGAAACGGA
 AGGCATTTGATGCAGAAATTTTGCATGACAACATAGAAATAATTTAAAAATAGTGTGTGT
 TCTGAATGTTGGTAGACCTTCATAGCTTTGTTACAATGAAACCTTGAAGTAAAATATT
 TAATAAAATAACCTTTAAACAGTC

Gene 199. >ENST00000326278 cDNA sequence

ATAGCTGCCTCTGCCTTTGCCGGTGCAGTGAGAGCAGCTTCAGGAATCTTATGGCCTCTG
 AATATTTTGGCATCTTCAGCCTACCAAACTGTGTCAAAAATGCCTCTCTTATTTCTGCA
 TTGTCCACTGGACGTTTTAGTCATATTGAGACACCAGTTGTTTCTCCACTCCAGACTT
 ACCACATCTGAGAGAAACCTGACATGTGGGCATACCTTCAGCGATCCTTAATAGAGTGGCC
 CTCTTGCTTCCAAGTGTCTTGAAGCTGCCAGCCAGATCTCTAACATACGTGAGTACAGGA
 AAAGGCAAGAGAAGGATTGTGAAAGCTGTCATCTATAGGTTTCTTCGACTTCATTGTGGC
 CTTTGGATGAGAAGGGCTGGTTATAAGAAAAAATTATGGAAAAAGGCACCTGCAAGAAAA
 AAGCGATTGAGGGAATTTGTATTTCGGCAATAAAACCCAGAGTAAACTCGATAAAATGACG
 ACGTCCTTCTGGAAGAGGTGA

Gene 200. >ENST00000333539 cDNA sequence

CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGTCTCAAAGGCTGGCCATGTAAGATC
 GTGGAGATGTCTGCTTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGT
 ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGAT
 GTCCCCAACATCAAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCA
 CTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
 AAG

Gene 201. >ENST00000242457 cDNA sequence

ATGTGGCTGTGCCCTCTGGCCCTCACCTCATCTTGATGGCAGCCTCTGGTGTGCGTGC
 GAAGTGAAGGACGTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCACGGC
 CTGCCAGGCAGGGACGGGAGAGATGGTGTCAAAGGAGACCCTGGCCCTCCAGGCCCATG
 GGTCCGCTGGAGAAACACCATGTCTCTCTGGGAATAATGGGCTGCCTGGAGCCCCCTGGT
 GTCCCTGGAGAGCGTGGAGAGAAGGGGGAGGCTGGCGAGAGAGGCCCTCCAGGGCTTCCA
 GCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTCAGACATCAAATCCTGCAG
 ACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCC
 AGCAATGGGCAGTCCATCACTTTTGATGCCATTGAGGAGGCATGTGCCAGAGCAGGCGGC
 CGCATTGTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAG
 TACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTAC
 TCAGATGGGACCCCTGTAAACTACACCAACTGGTACCGAGGGGAGCCTGCAGGTGCGGGA
 AAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTAC
 TCCCGACTGACCATCTGTGAGTTCTGA

Gene 202. >ENST00000242455 cDNA sequence

CCCAAGCAGCTGGAGGCTCTGTGTGTGGGTGCTGATTTCTTGGAGCCTGAAAAGAAAGT
 AACACAGCAGGGATGAGGACAGATGGTGTGAGTCAGTGAGAGCAGCGACTGGACCCAGAG
 CCATGTGGCTGTGCCCTCTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGTGTGT
 GCGAAGTGAAGGACGTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCACG
 GCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGACCCTGGCCCTCCAGGCCCA
 TGGGTCCACCTGGAGAAATGCCATGTCTCTCTGGAAATGATGGGCTGCCTGGAGCCCCTG
 GTATCCCTGGAGAGTGTGGAGAGAAGGGGGAGCCTGGCGAGAGGGGGCCCTCCAGGGCTTC
 CAGCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTTAGACATCAAATCCTGC

FIGURE 1 (CONT'D)

AGACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCT
CCAGCAATGGGCAGTCCATCACTTTTGTATGCCATTGAGGAGGCATGTGCCAGAGCAGGCG
GCCGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGA
AGTACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCT
ACTCAGACGGGACCCCTGTAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTGCGG
GAAAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAAGTGCCTGT
ACTCCCGACTGACCATCTGTGAGTTCTGA

Gene 203. >ENST00000260878 cDNA sequence

CCTGCCTGACATCTGGGTAGGGGGTTTGTCCCTGGAATTCTGGGACACTGGCTGGGGTTT
GAGGAGAGAAGCCAGTACCTACCTGGCTGCAGGATGAAGCTGGCCAGTGGCTTCTTGTT
TTGTGGCTCAGCCTTGGGGGTGGCCTGGCTCAGAGCGACACGAGCCCTGACACGGAGGAG
TCCTATTGAGACTGGGGCCTTCGGCACCTCCGGGGAAGCTTTGAATCCGTCAATAGCTAC
TTCGATTCTTTTCTGGAGCTGCTGGGAGGGAAGAATGGAGTCTGTGAGTACAGGTGCCGA
TATGGAAAGGCACCAATGCCCAGACCTGGCTACAAGCCCCAAGAGCCCAATGGCTGCGGC
TCCTATTTCTGGGTCTCAAGGTACCAGAAAGTATGGACTTGGGCATTCCAGCAATGACA
AAGTGCTGCAACCAGCTGGATGTCTGTTATGACACTTGCGGTGCCAACAAATATCGCTGT
GATGCAAAATTCCGATGGTGTCTCCACTCGATCTGCTCTGACCTTAAGCGGAGTCTGGGC
TTTGTCTCCAAAGTGAAGCAGCCTGTGATTCCCTGGTTGACACTGTGTTCAACACCGTG
TGGACCTTGGGCTGCCGCCCTTTATGAATAGTCAGCGGGCAGCTTGCATCTGTGCAGAG
GAGGAGAAGGAAGAGTTATGAGGAAGAAGTGATTCTTCTGGTTTTGAGTGACACCACA
GCTGTGAGCCTTCAAGATGTCAAGTCTTCGAGTCAGCGTGACTCATTATTCTTCCAACA
GTTTGGACACCACAAAGCAGGAGAAAGGGAACATTTTTCTACAGCTGGAAAGTGAGTCCT
ATCCTTTGAGGAAATTTGAAAAAGACATGGAGTGGTTTGAAAGCTACTCTTCATTTAAG
ACTGCTCTCCCCAACCAAGACACATTTGCCTGGAAATTCAGTTCTTAGCTTAAAGACTAA
AATGCAAGCAAACCTGCAATTCCTGGACCTGATAGTTATATTATGAGTGAAATTGTGG
GGAGTCCAGCCATTTGGGAGGCAATGACTTTCTGCTGGCCCATGTTTCAGTTGCCAGTAA
GCTTCTCACATTTAATAAAGTGACTTTTTTA

Gene 204. >ENST00000260885 cDNA sequence

AAAGCAGTGCTTCTCTCTGGGGCCAAGGCCAGAGCTGTGGACACCTTATCCCACTCATCC
TCATCCTCTTCTCTGATAAAGCCCCCTACCAGTGCTGATAAAGTCTTTCTCGTGAGAGCC
TAGAGGCCTTAAAAAAGAGTGTGTTGAAAGAGAAGGGGACAAAGGAACACCAGTATTAA
GAGGATTTTCCAGTGTTTTCTGGCAGTTGGTCCAGAAGGATGCCTCCATTCTGCTTCTCA
CCTGCCTCTTCATCACAGGCACCTCCGTGTCAACCGTGGCCCTAGATCCTTGTTCTGCTT
ACATCAGCCTGAATGAGCCCTGGAGGAACACTGACCACCAGTTGGATGAGTCTCAAGGTC
CTCCTCTATGTGACAACCATGTGAATGGGGAGTGGTACCACTTACGGGCATGGCGGGAG
ATGCCATGCCTACCTTCTGCATACAGAAAACCACTGTGGAACCCACGCACCTGTCTGGC
TCAATGGCAGCCACCCCTAGAAGGCGACGGCATTGTGCAACGCCAGGCTTGTGCCAGCT
TCAATGGGAAGTGTCTGTCTGGAACACCACGGTGGAAAGTCAAGGCTTGGCCCTGGAGGCT
ACTATGTGTATCGTCTGACCAAGCCCAGCGTCTGCTTCCACGTCTACTGTGGTCATTTTTT
ATGACATCTGCGACGAGGACTGCCATGGCAGCTGCTCAGATACCAGCGAGTGACATGCG
CTCCAGGAACTGTGCTAGGCCCTGACAGGCAGACATGCTTTGATGAAAATGAATGTGAGC
AAAACAACGGTGGCTGCAGTGAGATCTGTGTGAACCTCAAAAACCTCTACCGCTGTGAGT
GTGGGGTTGGCCGTGTGCTAAGAAGTGATGGCAAGACTTGTGAAGACGTTGAAGGATGCC
ACAATAACAATGGTGGCTGCAGCCACTCTTGCCCTTGATCTGAGAAAGGCTACCAGTGTG
AATGTCCCCGGGGCCTGGTGTGTCTGAGGATAACCACTTGCCAAGTCCCTGTGTTGT
GCAAATCAAATGCCATTGAAGTGAACATCCCCAGGGAGCTGGTTGGTGGCCTGGAGCTCT
TCCTGACCAACACCTCCTGCCGAGGAGTGTCCAACGGCACCCATGTCAACATCCTCTTCT
CTCTCAAGACATGTGGTACAGTGGTCGATGTGGTGAATGACAAGATTGTGGCCAGCAACC
TCGTGACAGGTCTACCCAAGCAGACCCCGGGGAGCAGCGGGGACTTCATCATCCGAACCA
GCAAGCTGCTGATCCCGGTGACCTGCGAGTTTCCACGCCTGTACACCATTTCTGAAGGAT
ACGTTCCCAACCTTCGAAACTCCCCACTGGAAATCATGAGCCGAAATCATGGGATCTTCC
CATTCACTCTGGAGATCTTCAAGGACAATGAGTTTGAAGAGCCTTACCGGGAAGCTCTGC
CCACCCTCAAGCTTCGTGACTCCCTCTACTTTGGCATTGAGCCCGTGGTGCACGTGAGCG
GCTTGGAAAGCTTGGTGGAGAGCTGCTTTGCCACCCCCACCTCCAAGATCGACGAGGTCC

FIGURE 1 (CONT'D)

TGAAATACTACCTCATCCGGGATGGCTGTGTTTCAGATGACTCGGTAAAGCAGTACACAT
 CCCGGGATCACCTAGCAAAGCACTTCCAGGTCCCTGTCTTCAAGTTTGTGGGCAAAGACC
 ACAAGGAAGTGTCTGCACTGCCGGGTTCTTGTCTGTGGAGTGTGGACGAGCGTTCCC
 GCTGTGCCAGGGTTGCCACCGGCGAATGCGTCGTGGGGCAGGAGGAGAGGACTCAGCCG
 GTCTACAGGGCCAGACGCTAACAGGCGGCCGATCCGCATCGACTGGGAGGACTAGTTCTG
 TAGCCATACCTCGAGTCCCTGCATTGGACGGCTCTGCTCTTTGGAGCTTCTCCCCCACC
 GCCCTCTAAGAACATCTGCCAACAGCTGGGTTCAGACTTCACACTGTGAGTTCAGACTCC
 CAGCACCAACTCACTCTGATTCTGGTCCATTAGTGGGCACAGGTCACAGCACTGCTGAA
 CAATGTGGCCTGGGTGGGTTTTATCTTTCTAGGGTTGAAAATAAACTGTCCACCCAGA
 AAGACACTCACCCCATTTCCCTCATTTCTTTCTTACACTTAAATACCTCGTGTATGGTGC
 AATCAGACCACAAAATCAGAAGCTGGGTATAATATTTCAAGTTACAAACCTAGAAAAAT
 TAAACAGTTACTGAAATTATGACTTAAATACCCAATGACTCCTTAAATATGTAAATTATA
 GTTATACCTTGAAATTTCAATTCAAATGCAGACTAATTATAGGGAATTTGGAAGTGTATC
 AATAAAACAGTATATAATTTT

Gene 205. >ENST00000334011 cDNA sequence

AAAGCAGTGCTTCTCTCTGGGGCCAAGGCCAGAGCTGTGGACACCTTATCCCACTCATCC
 TCATCCTCTTCTCTGATAAAGCCCCTACCAGTGCTGATAAAGTCTTTCTCGTGAGAGCC
 TAGAGGCCTTAAAAAAGAGTCTTGAAAGAGAAGGGGACAAAGGAACACCAGTATTAA
 GAGGATTTTCCAGTGTTTTCTGGCAGTTGGTCCAGAAGGATGCCTCCATTCTGCTTCTCA
 CCTGCCTCTTTCATCACAGGCACCTCCGTGTCAACCGTGGCCCTAGATCCTTGTTCTGCTT
 ACATCAGCCTGAATGAGCCCTGGAGGAACACTGACCACCAGTTGGATGAGTCTCAAGGTC
 CTCCTCTATGTGACAACCATGTGAATGGGGAGTGGTACCACTTACGGGCATGGCGGGAG
 ATGCCATGCCTACCTTCTGCATACCAGAAAACCACTGTGGAACCCACGCACCTGTCTGGC
 TCAATGGCAGCCACCCCTAGAAAGGCGACGGCATTGTGCAACGCCAGCTTGTGCCAGCTT
 CAATGGGAAGTGTGTCTCTGGAACACCACGGTGGAAAGTCAAGGCTTGCCGGAGGCTACT
 ATGTGTATCGTCTGACCAAGCCCAGCGTCTGCTTCCACGTCTACTGTGGTCATTTTTATG
 ACATCTGCGACGAGGACTGCCATGGCAGCTGCTCAGATACCAGCGAGTGCACATGCGCTC
 CAGGAAGTGTGCTAGGCCCTGCAGGCAGACATGCTTTGATGAAAATGAATGTGAGCAAA
 ACAACGGTGGCTGCAGTGAGATCTGTGTGAACCTCAAAAACCTTACCCTGTGAGTGTG
 GGGTTGGCCGTGTGCTAAGAAGTGATGGCAAGACTTGTGAAGACGTTGAAGGATGCCACA
 ATAACAATGGTGGCTGCAGCCACTCTTGCTTGGATCTGAGAAAGGCTACCAGTGTGAAT
 GTCCCCGGGGCCTGGTGTGTCTGAGGATAACCACACTTGCCAAGTCCCTGTGTTGTGCA
 AATCAAATGCCATTGAAGTGAACATCCCCAGGGAGCTGGTTGGTGGCCTGGAGCTCTTCC
 TGACCAACACCTCCTGCCGAGGAGTGTCCAACGGCACCCATGTCAACATCCTCTTCTCTC
 TCAAGACATGTGGTACAGTGGTTCGATGTGGTGAATGACAAGATTGTGGCCAGCAACCTCG
 TGACAGGTCTACCCAAGCAGACCCCGGGGAGCAGCGGGGACTTCATCATCCGAACCAGCA
 AGCTGCTGATCCCGGTGACCTGCGAGTTTTCCACGCCTGTACACCATTTCTGAAGGATACG
 TTCCCAACCTTGCAAACTCCCCACTGGAAATCATGAGCCGAAATCATGGGATCTTCCCAT
 TCACTCTGGAGATCTTCAAGGACAATGAGTTTGAAGAGCCTTACCGGGAAGCTCTGCCCA
 CCCTCAAGCTTTCGTGACTCCCTCTACTTTGGCATTGAGCCCGTGGTGCACGTGAGCGGCT
 TGGAAAGCTTGGTGGAGAGCTGCTTTGCCACCCCCACCTCCAAGATCGACGAGGTCTGA
 AATACTACCTCATCCGGGATGGCTGTGTTTCAGATGACTCGGTAAAGCAGTACACATCCC
 GGGATCACCTAGCAAAGCACTTCCAGGTCCCTGTCTTCAAGTTTGTGGGCAAAGACCACA
 AGGAAGTGTCTGCACTGCCGGGTTCTTGTCTGTGGAGTGTGGACGAGCGTTCCCGCT
 GTGCCAGGGTTGCCACCGGCGAATGCGTCGTGGGGCAGGAGGAGAGGACTCAGCCGGTC
 TACAGGGCCAGACGCTAACAGGCGGCCGATCCGCATCGACTGGGAGGACTAGTTCTGATG
 CCATACCTCGAGTCCCTGCATTGGACGGCTCTGCTCTTTGGAGCTTCTCCCCCACCAGCC
 CTCTAAGAACATCTGCCAACAGCTGGGTTTCACTTCACTGTGAGTTTCACTCTCCAG
 CACCAACTCACTCTGATTCTGGTCCATTAGTGGGCACAGGTCACAGCACTGCTGAACAA
 TGTGGCCTGGGTGGGTTTTATCTTTCTAGGGTTGAAAATAAACTGTCCACCCAGAAAG
 ACACTCACCCCATTTCCCTCATTTCTTTCTTACACTTAAATACCTCGTGTATGGTGAAT
 CAGACCACAAAATCAGAAGCTGGGTATAATATTTCAAGTTACAAACCTAGAAAAATTAA
 ACAGTTACTGAAATTATGACTTAAATACCCAATGACTCCTTAAATATGTAAATTATAGTT
 ATACCTTGAAATTTCAATTCAAATGCAGACTAATTATAGGGAATTTGGAAGTGTATCAAT

FIGURE 1 (CONT'D)

AAAACAGTATATAATTTT

Gene 206. >ENST00000299404 cDNA sequence

AGCCAACACCGCCTTTCTCAGCATGGAGACCTTTGAGCCCATCAGCCAAGAGCCCCTCAG
CCAAGCCAGCTATGACAAAGCCCCAGACCCAGTTCTTGAGCTCCAAGACTCGTTCTATGC
AGAACTGCAACGTGCAGAGAGCCTCCAAGAGAAGAGCATAAAAGAGGCCAAGACCAAATG
CAGGACAATTGCATCCCTGCTCACTGCAGCCCCCAACCCCACTCAAAGGGGTACTTAT
GTTTAAGAAACGGCGGCAGAGAGCCAAGAAGTACACCCTGGTGAGCTTCGGGGCTGCTGC
TGGGACAGGCGCTGAGGAGGAGGACGGCGTTCCCCCACGAGTGAGTCCGAGCTGGACGA
AGAAGCCTTCTCTGACGCCCCGAGCCTCACCAATCAATCTGACTGGGACAGTCCCTATCT
GGACATGGAGCTTGCCAGGGCGGGCTCAAGAGCATCAGAGGGCCAGGGCTCTGGGCTGGG
AGGGCAGCTGAGTGAGGTCTCTGGGCGAGGGGTGCAGCTCTTTGAACAGCAGCGCCAGCG
CGCAGACTCCAGCACCCAGGAACTGGCAGGGTGAACAGCAGCCATGCTCAACGGGGA
AGGCCTGCAGTACCACCTCGGGCCAGAGTGCTCCCCAGAGGCAGCTGTGCTCCACC
CAGCCCCCTTGCCGGCGCCTGTAGCCAGCCCCAGACCTTCCAACCAGGTGGTGGAGCCCC
GACCCAGCTCCAAGCATCTTTAACCGGTGAGCCAGGCCCTTTACCCCGGGCCTACAAGG
GCAGCGGCCAACTACCACCTCGGTTATTTTCCGGCCTTTAGCCCCAAAAGGGCGAACGA
CAGCCTGGGGGGCCTCAGCCCCGCCCCACCCCCCTTCTTGTCTTCGAGGGGGCCACCCC
TCTGCCAGCTTCACTTCAGGGGTTCCAGCCACGCGCCAGTCTCTGGTTCCCCAGCAC
CCCACGCTCCTCGGGCCCTGTGACAGCCACCAGTCCCTGTACATCCAGCCCCCTAGTCG
GCCTGTACCCCCAGGTGGAGCTCCAGAGCCCCCGCTCCTCCTAGCGCAGCTGCCATGAC
CTCCACCGCTTCTATCTTCTATCTGCGCCTTTGCGACCCTCTGCGCGCCAGAGGCGCC
TGCCCCAGGCCCAGGGGCTCCTGAGCCCCCAGCGCTCGCGAGCAGCGCATCTCTGTGCC
AGCTGCCCCGACGGGTATCCTGCAGGAGGCCCGGCGCGGGGGACCCGGAAGCAGATGTT
CCGGCCGGGAAAGGAGGAGACGAAGAACTCGCCCCAACCCCGAGCTGCTATCGCTGGTACA
GAACCTGGATGAAAAGCCTCGGGCCGGGGGTGCAGAATCTGGTCTGAAGAAGATGCTCT
GAGCCTCGGGGCTGAAGCCTGCAACTTCATGCAGCCAGTAGGGGCCAGGAGTTACAAGAC
CCTGCCTCACGTGACACCTAAGACCCCCCTCCAATGGCTCCCAAGACCCCGCCCCCTAT
GACTCCTAAGACTCCACCCCCAGTGGCTCCTAAGCCCCCATCTCGAGGGCTCCTTGATGG
GCTCGTGAATGGGGCAGCCTCTTCCGGCTGGAATCCCTGAGCCACCAAGGCTGCAGGGCAG
GGGTGGGGAGCTGTTTGCTAAGCGGCAGAGCCGTGCGGACAGGTATGTGGTGGAAGGTAC
ACCTGGTCTGGTCTTGGCCCTCGGCCTAGAAGTCTTCTCCTACCCCGTCTCTGCCCCC
TTCCTGGAAATATTACCCCAACATCCGTGCCCCGCTCCTATTGCTTACAACCCACTGCT
CTCTCCCTTTTTTCCCCAGGCGGCCCGAACTCTCCCTAAGGCCCAATCCCAGGGGCCTCG
GGCAACACCCAAGCAGGGCATCAAGGCTCTAGATTTTATGCGGCATCAGCCCTATCAACT
TAAACTGCCATGTTCTGTTTTGATGAGGTTCCCCCGACTCCTGGCCCTATCGCCTCAGG
GTCCCCCAAACCTGCCCGAGTCCAGGAGATTGCGCGGTTTTTCCACTCCGGCACCCAGCC
CACTGCAGAACCCCTGGCTCCCACTGTGCTTGCCCCCGAGCAGCCACTACACTGGATGA
GCCCATCTGGAGAACAGAACTGGCCTCAGCCCCCTGTTCTAGCCCAGCCCCCTCCTCCAGA
GGCTCCCAGGGGCCTTGGGGCTTCTCCAGCTCCTGCGGTTTTCCAGGTAGCCAGGCCCCG
ATTTTCAGCCACCAGAACAGGATTGCAAGCTCATGTGTGGAGGCCTGGGGCAGGGCACCA
GTGAACAGGCACAGGTCCAGGACCAAGGAGAGGTGGAACATCCAGTTCCCTAAAGTTGCT
TCTCCTACCCCTATCCCATCCCCCTGTACGCATCTGGAAGCTAAATTGCCTCCTGCCAGAG
ATGGTTTCCAAGTTGATGTCCCCCTTCCCCACCTTCCCTCCTCACTCTCTACCTCCCTGCC
GCTTTCCAACCAAGTATGTCTGCTTTGGTATCTTTGCCTCTCTTTGTCTCTGCATTTCTC
TTCCTGGATCTCTGTCTTTATTTCCAGGCTTCTCCACCCATATTCTCCACAGATCTCTC
TTCCTTGACATTTGTGCTTTTCTCCCTGGGCCTCATTTTAATGTTTCAGTGAGAAGTAAAC
AGAGCAGAAGTGACCACTGGGACTTCAGGCAAGAAGCTCACCACCAGGCACACAGCAAAG
GGACTGAACTGACCCCTGTTTGCACTAAGCCACCCCCACCCCCCACTCTGCTTTCCCAAG
CTTGACTGGCATATACTAGGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGCTCTTCCGTCTAAGGCATGAATAAGAGGGGAGGTCAAAATAAAGACCCAATCTGAGG
CCGGGCACGGTGGCTCACGCCGGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGATC
ACGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATTTCCACTAAAA
ATACAAAAAATTAGCTGGGCGTGGTGGCGAGCGCCTGTAGTCCAGCTACTCGGGAGGCT
GAGGCAGGAGAATGGCATGAACCTGGAAGGCGGAGCTTGCAGTGAGCTGAGATTGCGCCA

FIGURE 1 (CONT'D)

CTGCACTCCAGCCTGGGCGACGGAGCGAGACTCTGTCTCAAAACAAACAAACAAACAAACAA
GACCCAATCTGAGTCTTATCGTTGTACTGATAGAAGGGTCAGATATCCCCACATGGAGTT
GAGTGGGAGAAAGAGATTCACTAGAGAATAACTCCTTAGAGACCAATGTCTGTAGCAGGT
GTACAGCATCTTGTGAAAGTTATGGAGCATGAAAAGACTGAAGGGCCAGGACAGTTTGCA
TGGGCTGAGTTATACCAGCTAGACCAGGAATAGAACAAAGAATTCTATACCTCAGGATTT
CAAAAAGTTAGCAACTTGAGAGGCCAGTGCTGAGCAACCCAGTACCCAGG

Gene 207. >ENST00000318330 cDNA sequence

CGGTCACAGCAGCTCAGTCCTCCAAAGCTGCTGGACCCAGGGAGAGCTGACCACTGCCC
GAGCAGCCGGCTGAATCCACCTCCACAATGCCGCTCTCAGGAACCCCGCCCCCTAATAAG
AAGAGGAAATCCAGCAAGCTGATCATGGAACCTCACTGGAGGTGGACAGGAGAGCTCAGGC
TTGAACCTGGGCAAAAAGATCAGTGTCCCAAGGGATGTGATGTTGGAGGAACTGTCGCTG
CTTACCAACCGGGGCTCCAAGATGTTCAAACCTGCGGCAGATGAGGGTGGAGAAGTTTATT
TATGAGAACCACCTGATGTTTTCTCTGACAGCTCAATGGATATTATATCTTTAGTCCCT
GGCTCTTGCAATTTCCCTAGTGTAGGGGCGTGGGATTACCTTTATTGGCTACTAAATGC
TATTATTTGACTGAATTTTCTCTCCCATGGCTACCAGGAGACCAGGCAGGCGGAGAAGGA
AAACATATCACTGTGTTCAAGACCTATATTTCCCATGGGAGCGAGCCATGGGGGTTGAC
CCCCAGCAAAAAATGGAACCTTGGCATTGACCTGCTGGCCTATGGGGCCAAAGCTGAACTT
CCCAAATATAAGTCTTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGGCCTCC
AAACGCATGACCTTCCAGATGCCCAAGTTTGACCTGGGGCCCTTGCTGAGTGAACCCCTG
GTCCTCTACAACCAAAACCTCTCCAACAGGCCTTCTTTCAATCGAACCCCTATTCCCTGG
CTGAGCTCTGGGGAGCCTGTAGACTACAACGTGGATATTGGCATCCCCCTTGGATGGAGAA
ACAGAGGAGCTGTGAGGTGTTTTCTCCTCTGATTTGCATCATTTCCCCTCTCTGGCTCCA
ATTTGGAGAGGGAATGCTGAGCAGATAGCCCCATTGTTAATCCAGTATCCTTATGGGAA
TGGAGGGAAAAAGGAGAGATCTACCTTTCCATCCTTTACTCCAAGTCCCCACTCCACGCA
TCCTTCCTCACCAACTCAGAGCTCCCCTTCTACTTGCTCCATATGGAACCTGCTCGTTTA
TGGAATTTGCTCTGCCACCAGTAACAGTCAATAAACTTCAAGGAAAATGA

Gene 208. >ENST00000332382 cDNA sequence

CCTAAGTGCTTCTTTGGATCTCAGGCTCTAGGTGCAATGTGAAGGGGAGTCCCTGGGCAG
ACTGATCCCTGGCTCAGACAGTTTCACTGGGAGAATCCCAAAGGCCTTTTCCCTCCTTCCT
GAGCCTCCGGGCAAGGAGGGAGGGATCTTGGTTCCAGGGTCTCAGTACCCCTGTGCCAT
TTGAGCTGCTTGCCTCATCATCTCTATTAATAACCAACTTCCCTCCCCCACTGCCAGTG
CTGCCCCCACGCCTGCCAGCTCGTGTCTCCGGTCACAGCAGCTCAGTCCTCCAAAGCT
GCTGGACCCCAAGGAGAGCTGACCACTGCCCCGAGCAGCCGGCTGAATCCACCTCCACAAT
GCCGCTCTCAGGAACCCCGGCCCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATGGA
ACTCACTGGAGGTGGACAGGAGAGCTCAGGCTTGAACCTGGGCAAAAAGATCAGTGTCCC
AAGGGATGTGATGTTGGAGGAACTGTGCTGCTTACCAACCGGGGCTCCAAGATGTTCAA
ACTGCGGCAGATGAGGGTGGAGAAGTTTATTTATGAGAACCACCCTGATGTTTTCTCTGA
CAGCTCAATGGATCACTTCCAGAAGTTCCTTCCAACAGTGGGGGGACAGCTGGGCACAGC
TGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGGCGGCAGCCAGGCAGGGGGCAG
TGGCTCTGCCGGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGTCTGGAGC
TGGGGGTACAGGTGGTCCCGCGGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCAGG
GGTTGGAGACCAGGCAGGCGGAGAAGGAAAAATATCACTGTGTTCAAGACCTATATTTTC
CCCATGGGAGCGAGCCATGGGGGTTGACCCCAAGCAAAAAATGGAACCTTGGCATTGACCT
GCTGGCCTATGGGGCCAAAGCTGAACTTCCCAAATATAAGTCTTCAACAGGACGGCAAT
GCCCTATGGTGGATATGAGAAGGCCTCCAAACGCATGACCTTCCAGATGCCCAAGTTTGA
CCTGGGGCCCTTGCTGAGTGAACCCCTGGTCTCTACAACCAAAACCTCTCCAACAGGCC
TTCTTTCAATCGAACCCCTATTCCCTGGCTGAGCTCTGGGGAGCCTGTAGACTACAACGT
GGATATTGGCATCCCCCTTGGATGGAGAAACAGAGGAGCTGTGAGGTGTTTCTCCTCTGA
TTTGCATCATTTCCCCTCTCTGGCTCCAATTTGGAGAGGGAATGCTGAGCAGATAGCCCC
CATTGTTAATCCAGTATCCTTATGGGAATGGAGGGAAAAAGGAGAGATCTACCTTTCCAT
CCTTTACTCCAAGTCCCCACTCCACGCATCCTTCCTCACCAACTCAGAGCTCCCCTTCTA
CTTGCTCCATATGGAACCTGCTCGTTTATGGAATTTGCTCTGCCACCAGTAACAGTCAAT
AACTTCAAGGAAAATG

Gene 209. >ENST00000313455 cDNA sequence

FIGURE 1 (CONT'D)

ATGCTGAGGATCTTTTTCACACGTTTCACGGCCACTTGGATTTCTTCTGAGGAAATTATCA
CTGTTTCAGGAGGAGAGTTACTTTCAGGAACCCCTGCGGACAGAGGGACAGCCCACCAGACT
ACCATCTGTTGTTTGAATAATTTTTTTCCTTATCAATTGGATTCATTTTGGTATCCTGTT
TTTGAAGTCTAGCTTAAGAACTTCTCATCTCAAATCCTATGGCCTTCTGGAAGATCCACCA
CTATCCAAAGGAAAAAGTAGATTAAATATGCCTCAAGGGATATGACATCTATGGCATAGGG
CTACTGGTCTCATCCCAGCGATCGGGACAGAAATTGCTAATAGCTCATGCAACTCTTTCA
TGA

Gene 210. >ENST00000332968 cDNA sequence

ATGGTTTCGCTATTCACTTGACCCGGAGAACCCACAAAATCATGCAAATCAAGAGGTTCC
AATCTTCGTGTTCACTTTAAGAACTCGTGAAACTGCTCAGGCCATCAAGGGTATGTAT
ATACAAAAGGCACGAAGTATCTGAAAGATGTCACTTTACAGAAACAGTGCATACCATTTC
CGACATTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCAAAGCACCTGTTTGGGCCACAA
GGTCCGTGGCCCAAAAAGAGTGCTGAATTTTTTGTGTCACGTGCTTAAAAACACAGAGAGT
AATGCTGAACTTAAGGGTGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCT
AAGATGCACCAACGGACTTACAGAGCTCATGGAAACCCATACATGAGCTCTTCTGCCAC
ATTGAGATGATCTTTACTGAAAAGGAACAGATTGTTCTTAAACCAGAAGAGGAGGTTGCC
CAGAAGAAAAAGATATCCAGAAGAACTGAAGAAACAAAACTTATGGCACGGGAATAA

Gene 211. >ENST00000263556 cDNA sequence

ATGATCTGGTATATATTAATTATAGGAATTCTGCTTCCCCAGTCTTTGGCTCATCCAGGC
TTTTTTTACTTCAATTGGTCAGATGACTGATTTGATCCATACTGAGAAAGATCTGGTGACT
TCTCTGAAAGATTATATTAAGGCAGAAGAGGACAAGTTAGAACAAATAAAAAAATGGGCA
GAGAAGTTAGATCGGCTAACTAGTACAGCGACAAAAGATCCAGAAGGATTTGTTGGGCAT
CCAGTAAATGCATTCAAATTAATGAAACGTCTGAATACTGAGTGGAGTGAGTTGGAGAAT
CTGGTCCTTAAGGATATGTGAGATGGCTTTATCTCTAACCTAACCATTCAGAGACAGTAC
TTTCCTAATGATGAAGATCAGGTTGGGGCAGCCAAAGCTCTGTTACGTCTCCAGGATACC
TACAATTTGGATACAGATACCATCTCAAAGGGTAATCTTCCAGGAGTGAAACACAAATCT
TTTCTAACGGCTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTAT
TACCATACGGAACGTGTGGATGGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCT
ACCATAGATAAAGTCTCTGTTCTAGATTATTTGAGCTATGCGGTATATCAGCAGGGAGAC
CTGGATAAGGCACTTTTGCTCACAAAGAAGCTTCTTGAAGTAGATCCTGAACATCAGAGA
GCTAATGGTAACTTAAATATTTTTGAGTATATAATGGCTAAAGAAAAAGATGTCAATAAG
TCTGCTTCAGATGACCAATCTGATCAGAAAACTACACCAAAGAAAAAGGGGTTGCTGTG
GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATG
ACCCCTCGGAGACAGAAAAAATCTTTTGCCGCTACCATGATGGAAACCGTAATCCTAAA
TTTATTCTGGCTCCAGCTAAACAGGAGGATGAATGGGACAAGCCTCGTATTATTCTGCTTC
CATGATATTATTTCTGATGCAGAAATTGAAATCGTCAAAGACCTAGCAAAACCAAGGCTG
AGCCGAGCTACAGTACATGACCCCTGAGACTGGAAAATTGACCACAGCACAGTACAGAGTA
TCTAAGAGTGCCTGGCTCTCTGGCTATGAAAATCCTGTGGTGTCTCGAATTAATATGAGA
ATACAAGATCTAACAGGACTAGATGTTTCCACAGCAGAGGAATTACAGGTAGCAAATTAT
GGAGTTGGAGGACAGTATGAACCCATTTTGACTTTGCACGGAAAGATGAGCCAGATGCT
TTCAAAGAGCTGGGGACAGGAAATAGAATTGCTACATGGCTGTTTTATATGAGTGATGTG
TCTGCAGGAGGAGCCACTGTTTTTCTGAAGTTGGAGCTAGTGTTTGGCCCAAAAAGGA
ACTGCTGTTTTCTGGTATAATCTGTTTGCCAGTGGAGAAGGAGATTATAGTACACGGCAT
GCAGCCTGTCCAGTGCTAGTTGGCAACAAATGGGTATCCAATAAATGGCTCCATGAACGT
GGACAAGAATTTGGAAGACCTTGTACGTTGTGAGAATTGGAATGA

Gene 212. >ENST00000307116 cDNA sequence

ATGATCTGGTATATATTAATTATAGGAATTCTGCTTCCCCAGTCTTTGGCTCATCCAGGC
TTTTTTTACTTCAATTGGTCAGATGACTGATTTGATCCATACTGAGAAAGATCTGGTGACT
TCTCTGAAAGATTATATTAAGGCAGAAGAGGACAAGTTAGAACAAATAAAAAAATGGGCA
GAGAAGTTAGATCGGCTAACTAGTACAGCGACAAAAGATCCAGAAGGATTTGTTGGGCAT
CCAGTAAATGCATTCAAATTAATGAAACGTCTGAATACTGAGTGGAGTGAGTTGGAGAAT
CTGGTCCTTAAGGATATGTGAGATGGCTTTATCTCTAACCTAACCATTCAGAGACAGTAC
TTTCCTAATGATGAAGATCAGGTTGGGGCAGCCAAAGCTCTGTTACGTCTCCAGGATACC
TACAATTTGGATACAGATACCATCTCAAAGGGTAATCTTCCAGGAGTGAAACACAAATCT

FIGURE 1 (CONT'D)

TTTCTAACGGCTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTAT
TACCATACGGAAGTGTGGATGGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCT
ACCATAGATAAAGTCTCTGTTCTAGATTATTTGAGCTATGCGGTATATCAGCAGGGAGAC
CTGGATAAGGCACTTTTGGCTCACAAAGAAGCTTCTTGAAGTAGATCCTGAACATCAGAGA
GCTAATGGTAACTTAAATATTTTGGAGTATATAATGGCTAAAGAAAAAGATGTCAATAAG
TCTGCTTCAGATGACCAATCTGATCAGAAAACACACCAAAGAAAAAGGGGTTGCTGTG
GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATG
ACCCCTCGGAGACAGAAAAAAGCTTTTGGCGCTACCATGATGGAAACCGTAATCCTAAA
TTTATTCTGGCTCCAGCTAAACAGGAGGATGAATGGGACAAGCCTCGTATTATTCTGCTTC
CATGATATTATTTCTGATGCAGAAATTGAAATCGTCAAAGACCTAGCAAAACCAAGGCTG
AGGCGAGCCACCATTTCAAACCCAATAACAGGAGACTTGGAGACGGTACATTACAGAATT
AGCAAAAGTGCCTGGCTCTCTGGCTATGAAATCCTGTGGTGTCTCGAATTAATATGAGA
ATACAAGATCTAACAGGACTAGATGTTTCCACAGCAGAGGAATTACAGGTAGCAAATTAT
GGAGTTGGAGGACAGTATGAACCCATTTTGAAGTTTGCACGGAAAGATGAGCCAGATGCT
TTCAAAGAGCTGGGGACAGGAAATAGAATTGCTACATGGCTGTTTTATATGAGTGATGTG
TCTGCAGGAGGAGCCACTGTTTTTCTGAAGTTGGAGCTAGTGTGGCCCAAAAAGGA
ACTGCTGTTTTCTGGTATAATCTGTTTGCCAGTGGAGAAGGAGATTATAGTACACGGCAT
GCAGCCTGTCCAGTGCTAGTTGGCAACAAATGGGTATCCAATAAATGGCTCCATGAACGT
GGACAAGAATTTTGAAGACCTTGTACGTTGTGAGAATTGGAATGA

Gene 213. >ENST0000317358 cDNA sequence

AGACAGTCACAGTTCGCTGGAGAGAACAAAGCCAACTGTTGTAGGGGTGGATACTCACAT
GGAACCTTGATGAAGTTCATTGCTGCCCTGGAAGAGATTGCGGAGGAGGCTTCATCAAAGG
TCCCATGCTCCAGGGACTCCAGGGTGAGGGTAAACTGGCCCAATCCCAAAACCCACTCT
TCCCTCTCCCTCTCGCCTCACCTGTTTCGTATCTAGTTCTCAAATGGAAGACCATGGGTT
TCCAGCCAGGAGAAATGGATTGACCAAGCAAGCTTCATCTACCAGATGCCCCGAGGCTG
GGGCAGTCCCGGCGGCCTCTTCTCCCTTGCCAGCCAGTGCCAACCCCCGTGGTTCTCAA
GCCTCCGCTGCCACCCTGTCCCATTTCTGGGGAGAGTCTGGCCCTGCTGTGGATGGAAT
CCGGAGGACCCAGCTCCCTGAGCAGCCCCCTCTCTCCCTGGTGCTGATCAGAGGTCCT
TGGGCAGCATCAGTCAAAGCAAGAGCGCACTCACTTTGGAGTCGCTCACGACCAGGACGC
AGAGAAGCAGGCGCGCCAGCAGGGCTCTCATGGTGGCGAGGTGCGGGCGCTAGACGGCGG
CTCTGCAAAGGAAGGAGAAGTCAAGGCAAGAGGCGGAGGAACGGGAAGGCAGGCCAGGCG
GGCGACTGCAGCGCAGGGGAGATGCCCCGCGGTGACCAGGCTCCCCAGCTGTCTCTCTCT
CTCTGGGCTCCGGAATCCGGGCAGCCTGGATCGGCACCCGCGGGGGACGCCCGGGACGGG
GCGCCTTGACTCCGTGCAGCCGCGGGGAGCCAGGGAGCCCGGGCAGCCAGGGCGGGG
GAGGCAGACGCTCGGGAGCTGGGGCCGCGCGCATCCGGCCCGGGGATCTCAGGACCGCG
GCACTCACCGGTGGCTGCGGCAGGAGGGCGCGAGCCGGCGCTGCGGGGACAGGTGGACCC
TGGCCCGGGCTCCGGGGCTGCGGTCTCCGCACTGTGCTGCGACCCGCGGCGCCTGCTCTA
TATCAGGGCCCGCCCGGCGCCGCCCTCCCTCTCCCGCCGGCTCCCTCCCTGTCTTG
CAGCGCTCAGCGACCCGACCCCGCGTGCTTCCGCAACGCTCACAAAGATTTGGGGGAAG
CGCGATCTCCAGCGGAGGGGACCCAACAGCGTCTGGACTGAGGAATCGAGAGGCTTGTA
ATTCTCCGTGCTTCTCCCATGCACCTGGCCGGGGGCTGCCCCAGTGCAAGGAGTCCCC
GAATTGCAGAGAGGAGAGAAGGCGCACAGGAGACTCTCTACCTCGCCAGCTCTGAAGCC
TCCTGGGGTCTCTAATCAGTTCTTCTGCAACTTCTCCCGCTGGGCCCAACTTGCCTA
AGACTGCCTCAGACCCCTTGCCCGCAGCTGATGGAGCTGTGAAGTCTTCATCAACGCGA
CAAATGTACGAGACATACTCTCCAGAAGCACAGACAGAAAAACCCCTGCCTGTAGGGG
TCCCTCTGTGCGTCTGTTCAAGTGGCAGTCCCCAGATATCACCAACACAACAGTGGATGG
AACAAAGCCGGGCTTATTGCTTTCCGCAAGTAAGGGGGTTTGTGTTGATGGTGCTATCAGAG
GGGGAAGGCAAGGCCAGATTACTGAAAATTTGCAGCTTGGTTTAAAGTCCGTTTTTGAC
AGGGCTTGATAAGGATTGGGTAGGTGTCGTGATATGATGTTACAGGATTGTGGGAACAA
AGTCTAGGGCATAACTGTTGGTGCTTCTATTGAAGTGTTAACGGGTCTTTTGGGAAG
TTTCCATAATGAGCAATTCAATTTATTTGTGCAGGCAAGAATAAAGTAAAGACAATGGAA
ACATGTAGACAGTTCTAACTGTGGAGGTTCTGGAGGGTGTGGAAGTTCTGTTCTCACCTC
TGAGTAGAGGAATTGGGAGACTGGAGGACAAAATAAGAGGAAGATTTATTTTCACTGTT
TGTCCTTTTACACTCTTAACATTTTAAAAAGCACATCTCTGTATAGCCATTCCAAAAAG

FIGURE 1 (CONT'D)

ATAATTATGCATTTTTTAAATGCATGTGTATTTAGTGTTTTACTTCATCATAGAGCCTTGT
TTATTCTATTAGATAGAAACAATTGTTTATCAAATAAAATTGTCCTCCAG
Gene 214. >ENST00000311407 cDNA sequence
ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAAACGCAGAGCGCCTCTCCTCCT
CCAAAGGAACGCAGTTCTCACCAGCAACGGAAACAAAGCTGGATGGAGAATGACTTTGAC
GAGCTGAGAGAAGAAGGTTTTAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACCTTGAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAGTGATGCGGAGAATGGAACCAAGTTGAAAACACTCTGCAGGAT
ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAATTTCAGGAAATA
CAGAGAATGCCACAAAGATACTCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
TTCACCAAAGTTGAAATGAAGGAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
ACCCTCAAAGGGAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCCTACAAGCC
AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTACAGACAAG
CAAATGCTGAGAGATTTTGTACCACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCTAAAATGTAA
Gene 215. >ENST00000225174 cDNA sequence
GCGCGACGTGAGTTTGAGTTCTGTGTTCTCCCCGCCGTGTCGCCCGGACCCGCGCCCCG
CGATGCTGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCG
TGCCGCTGCGCCTCCCCGCGGCCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTCTT
CCTCCTCCTCCGGGAACCCGCTCGTGACCTGGACGTGGACGCCAACGGGAAGCCGCTCG
GCCGCGTGGTGCTGGAGCTGAAGGCAGATGTGCTCCCAAAGACAGCTGAGAACTTCAGAG
CCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCC
CTTCCTTCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCA
TCTACGGAAGCCGCTTTCCTGACGAGAACTTTACACTGAAGCACGTGGGGCCAGGTGTCC
TGTCCATGGCTAATGCTGGTCCTAACACCAACGGCTCCCAGTTCTTCATCTGCACCATAA
AGACAGACTGGTTGGATGGCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGGGCATGGACG
TCGTGAAGAAAATAGAATCTTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCA
TCACAGACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGCTGGCATGGTGGCAGCTGC
AAATGTCCATGCACCCAGGTGGCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATAC
GTGTGCCCACTCCACTGTACAGTGTGCCTGAGGAAGGCTGCTAGGGATGTTAGACCTCG
GCCAGGACCCACCACATTGCTTCCTAATACCCACCTTCCTCACGACCTCATTTCTGGGC
ATCTTTGTGGACATGATGTACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCC
AGATTTCATCTGTGCCTTGGACATGGTGATGGTGATGGGTGTCATCCAAGTGAAAGTCTT
TTCCTTGACCAAGGGGGACAGTCAGTTTTGCAAAAGGACTCTAATACCTGTTTAAATATTG
TCTTCCTAATTGGGATAATTTAATTAACAAGATTGACTAGAAGTGAAACTGCAACACTAA
CTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCAGAGCTTGG
CTTTTGAAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGG
TTACTGTGAAGCCTGTTGGTTTGTGCTGTGCTGTTTTTGAGGAGGGCCCATGGGGGTAGGA
GCAGTTGAACCTGGGAACAAACCTCACTTGAGCTGTGCCTAGACAATGTGAATTCTGTG
TTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCCGAGGGAAGCATTTCTGGTAGGC
TTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATGCATAAAACA
TTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGA
AGACTGGTACCTGGTTTCTGGAAGAGGGGTCTGTGACTTGAGCTGATCTTTACTGAGCT
CGCCGTGGCAGATGCCATGCTCAGGACGTTTATGTGGATGGTTTTCATGTCATCGTGCTGG
CAACTTGTCTCCTGCCTTAGAGATGAGGCTCAGACAAACGACCTTAGCACCCATAGCC
TATGCCATGAGCACTGGCTCCACCCTGAATCCCAGCTCCTCCCTTAGTGACCCCAAGTC
TGTTTTCCCTCAGCTGCATAAGGAGGCGATATAGTTTGAATATTTGTCCCCAGCCAAATCT
CATGTTGAACTGTAATCCCAGTGCTGGAGGTGGGGCCTGCTACGAGGTGTTTGGATCAT
GGGGACGGGTATTTTCATGGCTTGGTGCTGTTTTCTTGATGGTGAATTATTGCAAGATACG

FIGURE 1 (CONT'D)

GTCATTTAAAATTGTGTGGCACCTCCCCCTGCCCCCTTCTTGCTCCTGCTTTACCATGT
GACATGCCTGATCCCCCTTACCTTTTGCCATGGTCATAAGCTTCCTGAGGCCTCCCTGG
AAGCTGAGCAGATGCCAGCACCATGCTTCCTGTACATCCTGCAGAACCATAAGCCAATTA
AACCTTTTT

Gene 216. >ENST00000241878 cDNA sequence

ATGGCTATAGATTGTGGTTTGACACTCCTGGCTGCCCCTGCAGCTCTGGGGCAATGTCA
GTGTTTACGTTCTTCTCAACTTGGCGGCAACAGAGGAAAGGACCTTAGTAGTGGTTGT
GGTCAAGGGTCTTTTGCTTGTATCCTGGGAGCTCCACACCAGAGAGATGTAGGTGAGCAA
TTCCTCAGTGCAATCACCCCAGGATGA

Gene 217. >ENST00000242464 cDNA sequence

CAGCCCCGAGCCCCGGGCCAGGGTCCACCTGTCCCCGCAGCGCCGGCTCGCGCCCTCCTG
CCGCAGCCACCGAGCCGCCGTCTAGCGCCCCGACCTCGCCACCATGAGAGCCCTGCTGGC
GCGCCTGCTTCTCTGCGTCTGCTGGTCTGAGCGACTCAAAGGCAGCAATGAACTTCATCA
AGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGTCCAACAAGTACTTCTC
CAACATTCCTGGTGCAACTGCCCAAAGAAATTTCGGAGGGCAGCACTGTGAAATAGATAA
GTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACAC
CATGGGCCCGCCCTGCCTGCCCTGGAACCTTGCCACTGTCCTTCAGCAAACGTACCATGC
CCACAGATCTGATGCTCTTCAGCTGGGCCTGGGGAAACATAATTACTGCAGGAACCCAGA
CAACCGGAGGCGACCCTGGTGCTATGTGCAGGTGGGCCTAAAGCTGCTTGTCCAAGAGTG
CATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTAAAATT
TCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTGGGGGAGAATTACCAC
CATCGAGAACCAGCCCTGGTTTTGCGGCCATCTACAGGAGGCACCGGGGGGGCTCTGTAC
CTACGTGTGTGGAGGCAGCCTCATCAGCCCTTGCTGGGTGATCAGCGCCACACACTGCTT
CATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTGCTCAAGGCTTAACTC
CAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCCTACACAAGGACTACAG
CGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGG
CAGGTGTGCGCAGCCATCCCGGACTATACAGACCATCTGCCTGCCCTCGATGTATAACGA
TCCCCAGTTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAGAGAATTCTACCGACTA
TCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTTCCACCGGGAGTGTCA
GCAGCCCCACTACTACGGCTCTGAAGTCACCACCAAATGCTGTGTGCTGCTGACCCACA
GTGGAAAACAGATTCTGTCAGGGGAGACTCAGGGGGACCCCTCGTCTGTTCCCTCCAAGG
CCGCATGACTTTGACTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCC
AGGCGTCTACACGAGAGTCTCACACTTCTTACCCTGGATCCGCAGTCACACCAAGGAAGA
GAATGGCCTGGCCCTCTGAGGGTCCCCAGGGAGGAAACGGGCACCAACCCGCTTTCTTGCT
GGTTGTCAATTTTGCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATAG
GCTCTGCACAGATGGATTTGCCTGTGCCACCCACCAGGGCGAACGACAATAGCTTTACCC
TCAGGCATAGGCCTGGGTGCTGGCTGCCCAGACCCCTCTGGCCAGGATGGAGGGGTGGTC
CTGACTCAACATGTTACTGACCAGCAACTTGTCTTTTTCTGGAAGTGAAGCCTGCAGGAGT
TAAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCCAGCTCCCCGACGGTG
GGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCAATTAGGAAGTGTAACAGC
TGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGTTTGGGGAGCAGAGACACT
AACGACTTCAGGGCAGGGCTCTGATATTCCATGAATGTATCAGGAAATATATATGTGTGT
GTATGTTTGCACACTTGTGTGTGGGCTGTGAGTGTAAAGTGTGAGTAAGAGCTGGTGTCTG
ATTGTTAAGTCTAAATATTTCTTAAACTGTGTGGAAGTGTGATGCCACACAGAGTGGTCT
TTCTGGAGAGGTTATAGGTCACTCCTGGGGCTCTTGGGTCCCCACGTGACAGTGCCTG
GGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTCAGTTTCACTTTCACAT
AGATGTCCCTTTCTTGCCAGTTATCCCTTCTTTTAGCCTAGTTCATCCAATCCTCACT
GGGTGGGGTGAGGACCACTCCTGTACACTGAATATTTATATTTCACTATTTTTATTTATA
TTTTTGTAAATTTTAAATAAAAGTGATCAATAAAATGTGATTTTTCTGATG

Gene 218. >ENST00000211998 cDNA sequence

GCACAGTCTGTCTCTTCGCCGGTTCCCGGCCCGTGGATCCTACTTCTCTGTGCCCCGCG
GTTCCGCCGCCCGCTCGCCGCCCGCATGCCAGTGTTCATACGCGCACGATCGAGAGCAT
CCTGGAGCCGGTGGCACAGCAGATCTCCACCTGGTGATAATGCACGAGGAGGGCGAGGT
GGACGGCAAAGCCATTCTGACCTCACCGCGCCCGTGGCCGCCGTGCAGGCGGCCGTGAC

FIGURE 1 (CONT'D)

CAACCTCGTCCGGGTTGGAAAAGAGACTGTTCAAACCACTGAGGATCAGATTTTGAAGAG
AGATATGCCACCAGCATTATTAAGGTTGAGAATGCTTGACCAAGCTTGTCCAGGCAGC
TCAGATGCTTCAGTCAGACCCTTACTCAGTGCCTGCTCGAGATTATCTAATTGATGGGTC
AAGGGGCATCCTCTCTGGAACATCAGACCTGCTCCTTACCTTCGATGAGGCTGAGGTCCG
TAAAATTATTAGAGTTTGCAAAGGAATTTTGGAAATATCTTACAGTGGCAGAGGTGGTGG
GACTATGGAAGATTTGGTCACCTTACACAAAGAATCTTGGGCCAGGAATGACTAAGATGGC
CAAGATGATTGACGAGAGACAGCAGGAGCTCACTCACCAGGAGCACCGAGTGATGTTGGT
GAACTCGATGAACACCGTGAAAGAGTTGCTGCCAGTTCTCATTTTCAGCTATGAAGATTTT
TGTAACAACATAAAAACTCAAAAAACCAAGGCATAGAGGAAGCTTTAAAAAATCGCAATTT
TACTGTAGAAAAAATGAGTGCTGAAATTAATGAGATAATTCTGTGTGTACAACCTCACCTC
TTGGGATGAAGATGCCTGGGCCAGCAAGGACACTGAAGCCATGAAGAGAGCATTGGCCTC
CATAGACTCCAACTGAACCAGGCCAAAGGTTGGCTCCGTGACCCTAGTGCTCCCCAGG
GGATGCTGGTGAGCAGGCCATCAGACAGATCTTAGATGAAGCTGGAAAAGTTGGTGAAC
CTGTGCAGGCAAAGAACGCAGGGAGATTCTGGGAACCTGCAAAATGCTAGGGCAGATGAC
TGATCAAGTGGCTGACCTCCGTGCCAGAGGACAAGGATCCTCACCAGGTGGCCATGCAGAA
AGCTCAGCAGGTATCTCAGGGTCTGGATGTGCTCACAGCAAAAGTGGAAAATGCAGCTCG
CAAGCTGGAAGCCATGACCAACTCAAAGCAGAGCATTGCAAAGAAGATCGATGCTGCTCA
GAACTGGCTTGACAGATCCAAATGGTGGACCGGAAGGAGAAGAGCAGATTGAGGTGCTTT
GGCTGAAGCTCGGAAAATAGCAGAATTATGTGATGATCCTAAAGAAAGAGATGACATTCT
ACGTTCCCTTGGGGAAATATCTGCTCTGACTTCTAAATTAGCAGATCTACGAAGACAGGG
GAAAGGAGATTCTCCAGAGGCTCGAGCCTTGGCCAAACAGGTGGCCACGGCCCTGCAGAA
CCTGCAGACCAAAACCAACCGGGCTGTGGCCAACAGCAGACCGGCCAAAGCAGCTGTACA
CCTTGAGGGCAAGATTGAGCAAGCACAGCGGTGGATTGATAATCCACAGTGGATGACCG
TGGAGTCGGTCAGGCTGCCATCCGGGGGCTTGTGGCCGAAGGGCATCGTCTGGCTAATGT
TATGATGGGGCCTTATCGGCAAGATCTTCTCGCCAAGTGTGACCGAGTGGACCAGCTGAC
AGCCCAGCTGGCTGACCTGGCTGCCAGAGGGGAAGGGGAGAGTCTCAGGCACGAGCACT
TGCATCTCAGCTCCAAGACTCCTTAAAGGATCTAAAAGCTCGGATGCAGGAGGCCATGAC
TCAGGAAGTGTGAGATGTTTTTCAGCGATACCACAACTCCCATCAAGCTGTTGGCAGTGGC
AGCCACGGCGCCTCCTGATGCGCCTAACAGGGAAGAGGTATTTGATGAGAGGGCAGCTAA
CTTTGAAAACCATTCAGGAAAGCTTGGTGCTACGGCCGAGAAGGCGGCTGCGGTTGGTAC
TGCTAATAAATCAACAGTGAAGGCATTTCAGGCCTCAGTGAAGACGGCCCCGAGAACTCAC
ACCCAGGTGGTCTCGGCTGCTCGTATCTTACTTAGGAACCTGGAAATCAAGCTGCTTA
TGAACATTTTGTAGACCATGAAGAACCAGTGGATCGATAATGTTGAAAAAATGACAGGGCT
GGTGGACGAAGCCATTGATACCAAATCTCTGTTGGATGCTTCAGAAGAAGCAATTAAAAA
AGACCTGGACAAGTGCAAGGTAGCTATGGCCAACATTTCAGCCTCAGATGCTGGTTGCTGG
GGCAACCAGTATTGCTCGTGGGCCAACCGGATCCTGCTGGTGGCTAAGAGGGAGGTGGA
GAATTCGAGGATCCCAAGTTCCGTGAGGCTGTGAAAGCTGCCTCTGATGAATTGAGCAA
AACCATCTCCCCGATGGTGATGGATGCAAAAGCTGTGGCTGGAAACATTTCCGACCTGG
ACTGCAAAAGAGCTTCTTGGACTCAGGATATCGGATCCTGGGAGCTGTGGCCAAGGTGAG
AGAAGCCTTCCAACCTCAGGAGCCTGACTTCCCGCCGCTCCACCAGACCTTGAACAACCT
CCGACTAACAGATGAGCTTGCTCCTCCCAAAACCACTCTGCCTGAAGGTGAGGTCCCTCC
ACCTAGGCCTCCACCACCAGAGGAAAAGGATGAAGAGTTCCCTGAGCAGAAGGCCGGGGA
GGTGATTAAACAGCCAATGATGATGGCTGCCAGACAGCTCCATGATGAAGCTCGCAAATG
GTCCAGCAAGCCGGGCATCCAGCCGCTGAGGTGGGTATAGGTGTTGTAGCTGAGGCAGA
TGCGGCCGATGCTGCTGGCTTCCCTGTCCCCCTGACATGGAAGACGATTACGAACCTGA
GCTGCTGTTAATGCCATCCAATCAGCCGGTCAACCAGCCCATTCTGGCCGCGGCTCAGTC
CTTGATCGGGAAGCTACCAAGTGGTCTAGTAAGGGCAATGACATCATTGCAGCAGCCAA
GCGCATGGCTCTGCTGATGGCTGAGATGTCTCGGCTGGTAAGAGGGGGCAGTGGTACCAA
GCGGGCACTCATTTCAGTGTGCCAAGGACATCGCCAAGGCCTCAGATGAGGTGACTCGGTT
GGCCAAGGAGGTTGCCAAGCAGTGACAGATAAACCGGATTAGAACCAACCTCTTACAGGT
ATGTGAGCGAATCCCAACCATAAGCACCCAGCTCAAAATCCTGTCCACAGTGAAGGCCAC
CATGCTGGGCCGACCAACATCAGTGATGAGGAGTCTGAGCAGGCCACAGAGATGCTGGT
TCACAATGCCGAGAACCTCATGCAGTCTGTGAAGGAGACTGTGCGGGAAGCTGAAGCTGC
TTCAATCAAAATTCGAACAGATGCTGGATTTACACTGCGCTGGGTAGAAAAGACTCCCTG

FIGURE 1 (CONT'D)

GTACCAGTAGGCACCTGGCTGAGCCTGGCTGGCACAGAAACCTCTACTAAAAAGAAGGAA
AATGATCTGAGTCCCAGGAGCTGCCAGAGTTGCTGGGAGCTGAAAAATCACATCCTGGC
CTGGCACATCAGAAAGGAATGGGGCCCTCTTCAAATTAGAAGACATTTATACTCTTTTTT
CATGGACACTTTGAAATGTGTTTCTGTATAAAGCCTGTATTCTCAAACACAGTTACACTT
GTGCACCCTCTATCCCAATAGGCAGACTGGGTTTCTAGCCCATGGACTTCACATAAGCTC
AGAATCCAAGTGAACACTAGCCAGACACTCTGCTCTGCCCTTGTTCCCTAGGGGACACTT
CCCTCTGTTTTCTTTTTCTTGGCTCCCATTCACCTCTTCCAGAATCCAAGACCCAGGGCC
CAGGCAAATCAGTTACTAAGAAGAAAATTGCTGTGCCTCCCAAATTTGTTTTGAGCTTTC
CATGTTGCTGCCAACCATACCTTCCTTCCCTGGGCTGTGCTACCTGGGTCTTTTTCAGAA
GTGAGCTTTGCTGCTACAGGGGAAGGTGGCCTCTGTGGAGCCCAGCATATGGGGCCCTG
GATTCATTTCTGCCCCTTCCTCAGTTTAATCCTTCTAGTTTCCACAATATAAACTGTA
CTTCACTGTGAGGAAGAAATCACAGAATCATATGATTCTGCTTTTACCATGCCCTGAGC
AATGTCTGTGCTAGGGAACTTCCCGTCCCATATCCTGCCTCAGCCGCCAAGGTAGCCA
TCCCATGAACACACTGTGTCTGGTGCTCTCTGCCACTGGAAGGGCAGAGTAGCCAGGGT
GTGGCCCTGCCATCTTCCAGCAGGGCCACTCCCGGCACTCCATGCTTAGTCACTGCCTG
CAGAGGTCTGTGCTGAGGCCTTATCATTCACTTCTAGCTCTTAATTGTTCATTTTGAGCT
GAAATGCTGCATTTTAAATTTTAAACAAAACATGTCTCCTATCCTGGTTTTTGTAGCCTTC
CTCCACATCCTTTCTAAACAAGATTTTAAAGACATGTAGGTGTTTGTTCATCTGTAATC
TAAAAGATCCTTTTTTAAATTGAGTCTAAGAAAGAGGAGTGCTTGTCCCTAAGAGTGTT
TAATGGCAAGGCAGCCCTGTCTGAAGGACACTTCCTGCCTAAGGGAGAGTGGTATTTGCA
GACTAGAATTCTAGTGCTGCTGAAGATGAATCAATGGGAAATACTACTCCTGTAATTCCT
ACCTCCCTGCAACCAACTACAACCAAGCTCTCTGCATCTACTCCCAAGTATGGGGTTCAA
GAGAGTAATGGGTTTCATATTTCTTATCACCACAGTAAGTTCCTACTAGGCAAAATGAGA
GGGCAGTGTTTTCTTTTTGGTACTTATTACTGCTAAGTATTTCCAGCACATGAAACCTT
ATTTTTTCCCAAAGCCAGAACAGATGAGTAAAGGAGTAAGAACCTTGCCTGAACATCCT
TCCTTCCCAACCCATCGCTGTGTGTTAGTTCCCAACATCGAATGTGTACAACCTTAAGTTGG
TCCTTTACACTCAGGCTTTCACTATTTCTTTTATAATGAGGATGATTATTTTCAAGGCC
TCAGCATATTTGTATAGTTGCTTGCCTGATATAAATGCAATATTAATGCCTTTAAAGTAT
GAATCTATGCCAAAGATCACTTGTTGTTTTACTAAAGAAAGATTACTTAGAGGAAATAAG
AAAAATCATGTTTGCTCTCCCGTTCTTCCAGTGTTTTGAGACACTGGTTTACACTTTAT
GCCGGATGTGCTTTTCTCCAATATCAGTGCTCGAGACACAGTGAAGC

Gene 219. >ENST00000277829 cDNA sequence

GCACAGTCTGTCTCTTCGCCGGTTCCCGGCCCCGTGGATCCTACTTCTCTGTGCGCCGCG
GTTTCGCCGCCCCGCTCGCCGCGCGGATGCCAGTGTTTCATACGCGCACGATCGAGAGCAT
CCTGGAGCCGGTGGCACAGCAGATCTCCACCTGGTGATAATGCACGAGGAGGGCGAGGT
GGACGGCAAAGCCATTCTTGACCTCACCGCGCCCGTGGCCGCGGTGCAGGCGGCCGTGAG
CAACCTCGTCCGGGTTGGAAAAGAGACTGTTCAAACCACTGAGGATCAGATTTTGAAGAG
AGATATGCCACCAGCATTTATTAAGGTTGAGAATGCTTGCACCAAGCTTGTCCAGGCAGC
TCAGATGCTTCAGTCAGACCTTACTCAGTGCTGCTCGAGATTATCTAATTGATGGGTC
AAGGGGCATCCTCTCTGGAACATCAGACCTGCTCCTTACCTTCGATGAGGCTGAGGTCCG
TAAAATTATTAGAGTTTGCAGGAATTTTGGAAATATCTTACAGTGGCAGAGGTGGTGGA
GACTATGGAAGATTTGGTCACTTACACAAAGAATCTTGGGCCAGGAATGACTAAGATGGC
CAAGATGATTGACGAGAGACAGCAGGAGCTCACTCACCAGGAGCACCGAGTGATGTTGGT
GAACTCGATGAACACCGTGAAAGAGTTGCTGCCAGTTCTCATTTTCACTATGAAGATTTT
TGTAACAACATAAACTCAAAAAACCAAGGCATAGAGGAAGCTTTAAAAAATCGCAATTT
TACTGTAGAAAAAATGAGTGCTGAAATTAATGAGATAATTCTGTGTGTACAACCTCACCTC
TTGGGATGAAGATGCCTGGGCCAGCAAGGACACTGAAGCCATGAAGAGAGCATTTGGCCTC
CATAGACTCCAACTGAACAGGCCAAAGGTTGGCTCCGTGACCTAGTGCTCCTCCAGG
GGATGCTGGTGAGCAGGCCATCAGACAGATCTTAGATGAAGCTGGAAAAGTTGGTGAACT
CTGTGCAGGCAAAGAACGCAGGGAGATTCTGGGAACTTGCAAAATGCTAGGGCAGATGAC
TGATCAAGTGGCTGACCTCCGTGCCAGAGGACAAGGATCCTCACCGGTGGCCATGCAGAA
AGCTCAGCAGGTATCTCAGGGTCTGGATGTGCTCACAGCAAAAGTGGAAAATGCAGCTCG
CAAGCTGGAAGCCATGACCAACTCAAAGCAGAGCATTGCAAGAAGATCGATGCTGCTCA
GAACTGGCTTGCAGATCCAAATGGTGGACCGGAAGGAGAAGAGCAGATTGAGGTGCTTT

FIGURE 1 (CONT'D)

GGCTGAAGCTCGGAAAATAGCAGAATTATGTGATGATCCTAAAGAAAGAGATGACATTCT
ACGTTCCCTTGGGGAAATATCTGCTCTGACTTCTAAATTAGCAGATCTACGAAGACAGGG
GAAAGGAGATTCTCCAGAGGCTCGAGCCTTGGCCAAACAGGTGGCCACGGCCCTGCAGAA
CCTGCAGACCAAAACCAACCGGGCTGTGGCCAACAGCAGACCGGCCAAAGCAGCTGTACA
CCTTGAGGGCAAGATTGAGCAAGCACAGCGGTGGATTGATAATCCACAGTGGATGACCG
TGGAGTCGGTCAGGCTGCCATCCGGGGGCTTGTGGCCGAAGGGCATCGTCTGGCTAATGT
TATGATGGGGCCTTATCGGCAAGATCTTCTCGCCAAGTGTGACCGAGTGGACCAGCTGAC
AGCCAGCTGGCTGACCTGGCTGCCAGAGGGGAAGGGGAGAGTCTCAGGCACGAGCACT
TGCATCTCAGCTCCAAGACTCCTTAAAGGATCTAAAAGCTCGGATGCAGGAGGCCATGAC
TCAGGAAGTGTGAGATGTTTTTCAGCGATACCACAACTCCCATCAAGCTGTTGGCAGTGGC
AGCCACGGCGCCTCCTGATGCGCCTAACAGGGAAGAGGTATTTGATGAGAGGGCAGCTAA
CTTTGAAAACCATTCAGGAAAGCTTGGTGCTACGGCCGAGAAGGCGGCTGCGGTTGGTAC
TGCTAATAAATCAACAGTGAAGGCATTAGGCCTCAGTGAAGACGGCCCGAGAACTCAC
ACCCAGGTGGTCTCGGCTGCTCGTATCTTACTTAGGAACCTGGAAATCAAGCTGCTTA
TGAACATTTTGGAGCCATGAAGAACCAGTGGATCGATAATGTTGAAAAAATGACAGGGCT
GGTGGACGAAGCCATTGATACCAAATCTCTGTTGGATGCTTCAGAAGAAGCAATTAAAAA
AGACCTGGACAAGTGAAGGTAGCTATGGCCAACATTAGCCTCAGATGCTGGTTGCTGG
GGCAACCAGTATTGCTCGTGGGCCAACCGGATCCTGCTGGTGGCTAAGAGGGAGGTGGA
GAATTCCGAGGATCCCAAGTTCCGTGAGGCTGTGAAAGCTGCCTCTGATGAATTGAGCAA
AACCATCTCCCCGATGGTGTATGGATGCAAAAGCTGTGGCTGGAAACATTTCCGACCCTGG
ACTGCAAAAGAGCTTCTGGACTCAGGATATCGGATCCTGGGAGCTGTGGCCAAGGTGAG
AGAAGCCTTCCAACCTCAGGAGCCTGACTTCCCGCCGCTCCACCAGACCTTGAACAACCT
CCGACTAACAGATGAGCTTGCTCCTCCCAAACCACTCTGCCTGAAGGTGAGGTCCCTCC
ACCTAGGCCTCCACCACCAGAGGAAAAGGATGAAGAGTTCCCTGAGCAGAAGGCCGGGGA
GGTGATTAACCAGCCAATGATGATGGCTGCCAGACAGCTCCATGATGAAGCTCGCAAATG
GTCCAGCAAGGGCAATGACATCATTGCAGCAGCCAAGCGCATGGCTCTGCTGATGGCTGA
GATGTCTCGGCTGGTAAGAGGGGGCAGTGGTACCAAGCGGGCACTCATTAGTGTGCCAA
GGACATCGCCAAGGCCTCAGATGAGGTGACTCGGTTGGCCAAGGAGGTTGCCAAGCAGTG
CACAGATAAACGGATTAGAACCAACCTCTTACAGGTATGTGAGCGAATCCCAACCATAAG
CACCCAGCTCAAAATCCTGTCCACAGTGAAGGCCACCATGCTGGGCCGGACCAACATCAG
TGATGAGGAGTCTGAGCAGGCCACAGAGATGCTGGTTTACAATGCCCAGAACCTCATGCA
GTCTGTGAAGGAGACTGTGCGGGAAGCTGAAGCTGCTTCAATCAAAATTGCAACAGATGC
TGGATTTACACTGCGCTGGGTTAGAAAGACTCCCTGGTACCAGTAGGCACCTGGCTGAGC
CTGGCTGGCACAGAAACCTCTACTAAAAAGAAGGAAAATGATCTGAGTCCCAGGAGCTGC
CCAGAGTTGCTGGGAGCTGAAAAATCACATCCTGGCCTGGCACATCAGAAAGGAATGGGG
GCCTCTTCAAATTAGAAGACATTTATACTCTTTTTTTCATGGACACTTTGAAATGTGTTTC
TGTATAAAGCCTGTATTCTCAAACACAGTTACACTTGTGCACCCTCTATCCCAATAGGCA
GACTGGGTTTCTAGCCCATGGACTTCACATAAGCTCAGAATCCAAGTGAACACTAGCCAG
ACACTCTGCTCTGCCCTTGTTCCCTAGGGGACACTTCCCTCTGTTTCTCTTTCCTTGGCT
CCCATTCACTCTTCCAGAATCCCAAGACCCAGGGCCAGGCAATCAGTTACTAAGAAGA
AAATTGCTGTGCCTCCCAAATTTGTTTTGAGCTTTCCATGTTGCTGCCAACCATACCTTC
CTTCCCTGGGCTGTGCTACCTGGGTCTTTTTCAGAAGTGAAGCTTTGCTGCTACAGGGGAA
GGTGGCCTCTGTGGAGCCCCAGCATATGGGGGCTGGATTCAATTCCTGCCCTTCCTCAG
TTTAATCCTTCTAGTTTCCCAATATAAACTGTACTTCACTGTGAGGAAGAAATCACA
GAATCATATGATTCTGCTTTTACCATGCCCCTGAGCAATGTCTGTGCTAGGGAACTTCC
CGTCCCATATCCTGCCTCAGCCCGCCAAGGTAGCCATCCCATGAACACACTGTGTCTGG
TGCTCTCTGCCACTGGAAGGGCAGAGTAGCCAGGGTGTGGCCCTGCCATCTTCCAGCAG
GGCCACTCCCGGCACTCCATGCTTAGTCACTGCCTGCAGAGGTCTGTGCTGAGGCCTTAT
CATTCACTCTTAGCTCTTAATTGTTTCAATTTGAGCTGAAATGCTGCATTTTAATTTAAC
CAAAACATGTCTCCTATCCTGGTTTTTGTAGCCTTCCCTCCACATCCTTTCTAAACAAGAT
TTTAAAGACATGTAGGTGTTTGTTCATCTGTAACCTTAAAGATCCTTTTTTAATTCAGT
CCTAAGAAAGAGGAGTGCTTGTCCCCTAAGAGTGTTAATGGCAAGGCAGCCCTGTCTGA
AGGACACTTCCCTGCCTAAGGGAGAGTGGTATTTGCAGACTAGAATTCAGTGCTGCTGAA
GATGAATCAATGGGAAATACTACTCCTGTAATTCCTACCTCCCTGCAACCAACTACAACC

FIGURE 1 (CONT'D)

AAGCTCTCTGCATCTACTCCCAAGTATGGGGTTCAAGAGAGTAATGGGTTTCATATTTCT
TATCACCACAGTAAGTTCCTACTAGGCAAAATGAGAGGGCAGTGTTTCCTTTTTGGTACT
TATTACTGCTAAGTATTTCCAGCACATGAAACCTTATTTTTTCCCAAAGCCAGAACCAG
ATGAGTAAAGGAGTAAGAACCTTGCCTGAACATCCTTCCTTCCACCCATCGCTGTGTGT
TAGTTCCCAACATCGAATGTGTACAACCTTAAGTTGGTCCTTTACACTCAGGCTTTCAC
TTTCCTTTTATAATGAGGATGATTATTTTCAAGGCCCTCAGCATATTTGTATAGTTGCTTG
CCTGATATAAATGCAATATTAATGCCTTTAAAGTATGAATCTATGCCAAAGATCACTTGT
TGTTTTACTAAAGAAAGATTACTTAGAGGAAATAAGAAAAATCATGTTTGCTCTCCCGGT
TCTTCCAGTGGTTTTGAGACACTGGTTTACACTTTATGCCGGATGTGCTTTTCTCCAATAT
CAGTGCTCGAGACACAGTGAAGC

Gene 220. >ENST00000334073 cDNA sequence

GTGGTGTGCTCCTTGCAGAGTTCTGTGGTGGAAGCTTTCAACAAGGTGCTGAGCAGTGTC
AATCCAGTCCCTGTTTACATTCCAAACCTGAGTCCTCCACCAATGCAGGGATCACGTTA
CCAACGCGTGGGTACAAGTGCTTGGAGTGTGGGGACTCCTTTGCAGTTGAAAAGAGTCTG
ACCCAGCACTATGACAGACAGAGCATGCGCATCGAAGTAACATGCAACCATGGTACAAAG
AACCTCATTTTTTACAACAAATGCAGCCTCCTTTCCCATGCCCGTGGGCATAAGGAGAAA
GGGGTGGTAATACAATGCTCCCACTTCATTTTTAAAGCCAGTCCCAGCAGGTCAAATGATA
GTTTTCTCCATCAAGCAATATTTCCACTTCAACTTCCACTCTTCAGAGCCCTGTGGGAGCT
GGCACACACACTGTCAAAAAATTGAGTCTGGCATAACTGGGACAGTCATATCGGCTCCT
TTAAGCATTCCCATCACCCAGCCATGCCCCCTAGATGAAGACCCCTCCAAAGTGTGTAGA
CATAGTCTAAAATGTTTGGAGTGTAATGAACTTCAGTATGAGACATCAATGGCTACACAT
TTCCAGCAGGCTGCAGATACACGTGGACAAAAGACTTGCACTATCTGCCAGATGCTGCTT
CCTAACCAGTGCAGTTACGCATCACACCAGAGAATCCATCAGCACAAATCTCTCTACACC
TGCCCTGAGTGCGGGGCCATCTGCAGGTGCGGTGCACTTCCAGACCCATGTACCAAGAAC
TGTCTGCACTACATGAGGAGAGTTGGTTTTTCGATGTGTGCATTGCAATGTTGTATACTCT
GATGTGGCTGCCCTGCAGTCTCACATTCAAGGTTCTCACTGTGAAGTCTTCTACAAGTGT
CCTATTTGTCCAATGGCATGTAAGTCCGCCCCAAGCACACATTCCCACACCTACACACAG
CATCCTGGCATCAAGATAGGAGAACCAGAAATAATATATAAGTGTTCATGTGCGACACT
GTGTTACCCCTGCAACCTTGCTGTATCGCCACTTTGACCAACACATTGAAAACCCAGAAG
TTGTCTGTTTTCAAGTGTCCAGACTGTTATCTTTTATATGCACAGAAGCAACTTATGATG
GACCATATCAAGTCTATGCATGGAACATTGAAAAGTATTGAAGGGCCTCCAACTTGGGT
ATAAACTTGCCTTTTGAGCATTAAAGCCTGCAACTCAAAATTGAGCAAATCAGAACAAAGAG
GACACCAAATCCATGAATGGGAAAGAGAAATTGGAAAAGAAATCTCCATCTCCTGTGAAA
AAATCAGTGGAAACCAAGAAAGTGGCCAGTCTGGGTGGACGTGTTGGGAGTGTGACCGC
CTGTTTCAATCAGAGAGATGTGTACATATCCACGTGAGGAAGGAGCAAGGGAAGCAAATG
AAGAAACATCCCTGCCGCCAGTGTGACAGCTCATCCACAGCCTGTGCCAGCACAAACCGG
ATCAAGCACAAAGGCATCAGGAAAGTGTATGCCTGC

Gene 221. >ENST00000329171 cDNA sequence

ATGACTCTTAATGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCA
CCCTTAATCCATTCAACCCCTGAGTGGACATAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACCTCTTTCTACACAGACATGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCTTTCTATTCCACAAAACCGCCATTGTTCATCATGGCCC
GTTCTCAATGAGCTGTTGAGTACACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCAGTAG

Gene 222. >ENST00000265450 cDNA sequence

AACTTGCTCTAACTTCTCGGCCGAGCCGGGCCGCGCCGCTGCCGCCGCCGCGCGCG
GATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGTGTCTGG
TACAAGTACCTCCTTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTT
GGAGTCGGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACC
CGGATGCATGGAATCGACCCTGTGGTGTGCTGCTGCTGCGACCTCACCAAAGTGACC
CTGGGGTTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTT
TGTGGCACCATCGTGCTCATCTTCTTCTGAGCTGGCTGTGGCCGTGCTGGCCTTCCTG
TTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCTTAC

FIGURE 1 (CONT'D)

CGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAGTGCTGT
GGCGCATATGGCCCTGAAGACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGC
TACAGCCGAGAGAAGTGCAGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAA
GTTGTGAACACACAGTGTGGATATGATGTGAGGATTGAGCTGAAGAGCAAGTGGGATGAG
TCCATCTTTCAGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCCCGCGGAACATTTAC
ATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCCTGGCA
AGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCCGGCCATCACTTCTGAGGAGCAGAG
TTGAGGGAGCCGAGCTGAGCCACGCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCCCTA
CGTCCAGAGGGAGAGGAGCCGACACCCCCAGAGCCAGTGCCCATCTTAAGCATCAGCGT
GACGTGACCTCTCTGTTTCTGCTTGTGCTGAGTGAAGACCAAGGGTCCCCCTTGTTACCT
GCCAAACTTGTGACTGCATCCCTCTGGAGTCTACCCAGAGACAGAGAATGTGTCTTTAT
GTGGGAGTGGTGAATCTGAAAGACAGAGAGGGCTCCTGTGGCTGCCAGGAGGGCTTGACT
CAGACCCCTGCAGCTCAAGCATGTCTGCAGGACACCCTGGTCCCCTCTCCACTGGCATC
CAGACATCTGCTTTGGGTCACTCACATCTGTGGGTGGGCCGTGGGTAGAGGGACCCACAG
GCGTGGACAGGGCATCTCTCTCATCAAGCAAAGCAGCATGGGGGCCTGCCCGTAACGGG
AGGCGGACGTGGCCCCGCTGGGCCTCTGAGTGCCAGCGCAGTCTGCTGGGACATGCACAT
ATCAGGGGTTGTTTGCAGGATCCTCAGCCATGTTCAAGTGAAGTAAGCCTGAGCCAGTGC
GTGGACTGGTGCCACGGGAGTGCTTGTCCACTGTCCCCCTGTGTCCACCAGCTATTCTC
CTGGCGCCGGAAGTGCCTCTGGTCTTGATAGCATTAAAGCCCTGATGGCGCCGGTGGCGG
GTGGGCATGGTTCTTCACTGAGAGCCGGCTCTCCTTTTCTTAAAGTGTGTAAATAGTTTA
TTTATAGGGGTAAGAATGTTCTCACACCATTTCACTTCTCTCTCTCTCTCCAGCATTCT
TCCTCTGAGCAGCCTTAGATAGTGTCCATGGCTGGAGCCGACCCCTTGGAGTCCCCTTGAG
TGTCTTAAGAACCAGCCCAACAGCCTCTCTTTCTCTCCACATACTGCAGCCTCCCTC
CATGCATCCACATAACAAGCACTCCCCCACTCCCCAGCGTGGCCTCACTGTCTTCTGGTC
TTGGTGCTACTGAAATTGTCAACCCAGAATTTGAATCCTGACCCCTCCCCACTGCAAGCCCA
GGGAGCCCCAGCCCAAGATGGCCAGCCTGAAACTGTTGGCCAGGGCTCCTCTTGTGGCCA
TGTAACCCAGGGCTGGCTGGCCTGCCATTTGCCTCTCCCCGGAGACAGCCGTTCTTCTGCA
ACCACACCCCGTGCCTAGCCACAACCCCCAGGCTGCAGCTGCTCAGAAGCTCCAGGCATTT
TGTTTCTGGTGACCGCCCCCTAATGGGATATCGGTGATCACTGGTCCACCCTTCTCTGTGAG
GGCTTTTCTGGGGCTGCTCTTGGAAATGAAGTCTTAAGTACTGAATAACTCCCCTGGGGA
TAGCTGGGGCATTTGTCTAGCTGGGCTACTTTCTAACACTTTGCCATAGCTCAGACCACT
TCTCATCGTTTCAAGGATGGACTGCAACCTTAATTTACTTGCCGGAGTGATACATTCTAGTG
TGGTGTATACTGGTGGCTGTTGATGATGATTTTTTTTTTTTTTACACAATTCTCTGTAGAC
TAGGAGAAGAATGCTTGTGTTTTTTCGGAAGTGTGATGCTTCTCTTTGACTGCCAAACTCT
TTTATGGAATATATCTTTATATT

Gene 223. >ENST00000312169 cDNA sequence

CTCTAACTTCTCGGCCGAGCCGGGCCGCGCCCGCTGCCGCCGCGCGCGCGGATTCT
GCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGTGTGGTACAAG
TACCTCCTTTTCAAGTACAACATCATCTTCTGGGGTGTGCTGTCCGACCTCACCAAAGTG
ACCCGGATGCATGGAATCGACCCCTGTGGTGTGGTCTGATGGTGGGCGTGGTGATGTTT
ACCCTGGGGTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTT
TTCTGTGGCACCATCGTGCTCATCTTCTTCTGAGCTGGCTGTGGCCGTGCTGGCCTTC
CTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTCTTTCGAGAGCAACATCAAGTCC
TACCGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAGTGC
TGTGGCGCATATGGCCCTGAAGACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCC
AGCTACAGCCGAGAGAAGTGCAGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAA
AAAGTTGTGAACACACAGTGTGGATATGATGTGAGGATTGAGCTGAAGAGCAAGTGGGAT
GAGTCCATCTTACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCCCGCGGAACATT
TACATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCTCTG
GCAAGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCCGGCCATCACTTCTGAGGAGCA
GAGTTGAGGGAGCCGAGCTGAGCCACGCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCC
CTACGTCCAGAGGGAGAGGAGCCGACACCCCCAGAGCCAGTGCCCATCTTAAGCATCAG
CGTGACGTGACCTCTCTGTTTCTGCTTGTGCTGAGTGAAGACCAAGGGTCCCCCTTGTTA
CCTGCCAAACTTGTGACTGCATCCCTCTGGAGTCTACCCAGAGACAGAGAATGTGTCTT

FIGURE 1 (CONT'D)

TATGTGGGAGTGGTGACTCTGAAAGACAGAGAGGGCTCCTGTGGCTGCCAGGAGGGCTTG
 ACTCAGACCCCTGCAGCTCAAGCATGTCTGCAGGACACCCTGGTCCCCTCTCCACTGGC
 ATCCAGACATCTGCTTTGGGTCAACATCTGTGGGTGGGCCGTGGGTAGAGGGACCCA
 CAGGCGTGGACAGGGCATCTCTCTCCATCAAGCAAAGCAGCATGGGGGCTGCCGTAAC
 GGGAGGCGGACGTGGCCCCGCTGGGCCTCTGAGTGCCAGCGCAGTCTGCTGGGACATGCA
 CATATCAGGGGTTGTTTGCAGGATCCTCAGCCATGTTCAAGTGAAGTAAGCCTGAGCCAG
 TGGTGGACTGGTGCCACGGGAGTGCCTTGTCCACTGTCCCCCTGTGTCCACCAGCTATT
 CTCCTGGCGCCGGAAGTGCCTCTGGTCTTGATAGCATTAAAGCCCTGATGGCGCCGGTGGC
 GCGGTGGGCATGGTTCTTCACTGAGAGCCGGCTCTCCTTTTCTTAAAGTGTGTAAATAGT
 TTATTTATAGGGTAAGAATGTTCTCACACCATTTCACTTCCTCTTCTCTCCTCCAGCA
 TTCTCCTCTGAGCAGCCTTAGATAGTGTCCATGGCTGGAGCCGACCCTTTGAGTCCCCTT
 GAGTGTCTTAAGAACCAGCCCAACAAGCCTCTCTTTCTCCTCCACATACTGCAGCCTCC
 CTCCATGCATCCACATACAAGCACTCCCCCACTCCCCAGCGTGGCCTCACTGTCTTCTG
 GTCTTGGTGCTACTGAAATTGTCAACCAAGATTTGAATCCTGACCCTCCCCACTGCAAGC
 CCAGGGAGCCCCAGCCCAAGATGGCCAGCCTGAAACTGTTGGCCAGGGCTCCTCTTGTGG
 CCATGTACCCAGGGCTGGCTGGCCTGCCATTTGCCTCTCCCCGGAGACAGCCGTTCTTCT
 GCAACCACACCCCGTGCCTAGCCACAACCCAGGCTGCAGCTGCTCAGAAGCTCCAGGCA
 TTTTGTCTTGGTGACCGCCCCAATGGGATATCGGTGATCACTGGTCCACCCTTCTGT
 CAGGGCTTTTCTGGGGCTGCTCTTGGAAATGAAGTCTTAAGTACTGAATAACTCCCCTGG
 GGATAGCTGGGGCATTTGTCTAGCTGGGCTACTTTCTAACACTTTGCCATAGCTCAGACC
 ACTTCTCATCGTTTCAGGGATGGACTGCAACCTTAATTTACTTGCCGGAGTGTACATTCTA
 GTGTGGTGTATACTGGTGGCTGTTGATGATGATTTTTTTTTTTTTTACACAATTCTCTGTA
 GACTAGGAGAAGAATGCTTGTGTTTTTCGGAAGTGTGATGCTTCTCTTTGACTGCCAAAC
 TCTTTTATGGAATATATCTTTATATT

Gene 224. >ENST00000316064 cDNA sequence

AACTTGCTCTAACTTCCTCGGCCGAGCCGGGCCGCGCCCGCTGCCGCCGCCGCGCGCG
 GATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGCTGCTGG
 TACAAGTACCTCCTTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTT
 GGAGTGGGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACC
 CGGATGCATGGAATCGACCCTCCTTGGGGTCTTTTCTGTACCCCCCTCCTCAACCCTGGTC
 CACCCCTCTCAGGATCTTGTCAACGTTATTTTTCTGTCCCGTCTTCTATCGCTGGCC
 TTCCTTTCCCATCCTAAAACTTGCCGAGGCCCTATGGCTCCCTCCCTTTCTTTCCAGG
 CAGCTTCTTATCTGGGCTGTCTGTACCCCTTCTTTTGACCAACCCACCATGCCCCACGTA
 GCTGAAAGCTGCTTATCCCAATTGTCAACTCTGGCCTTCTTCAGCCTCTGTAGCACCAGA
 CACTGCACCTCCTGA

Gene 225. >ENST00000323546 cDNA sequence

ATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCC
 ACCTCGGCCTCC

Gene 226. >ENST00000330581 cDNA sequence

CTCGGCTTCTCCAGCTTCGGTAGGAGAGGATCCGGCGCCGAATCACTGACTGGCACAGGT
 GTTGGGAAAATGATCCACAGTCTATTTCTCATAACTGTTCCGGTGACATATTTCTAGAG
 AAGCACTGGAAGAGCGTTGTGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAG
 AAAGCTGCTGATGTTGAAAATGTACCACCTGTCAATTTCAACACCTCACCCTACCTCATC
 AGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTACATACAGACCGAAGTGCCACCTCTC
 TTTGTAATTGAGTTCTACATCGAGTTGCTGACACTTTTCAGGACTACTTTGGTGAGTGT
 TCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACTCTTAGAAGAAATGTTA
 GACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGAAAGAATTGATTAAACCACCA
 ACAATTCTACGCTCTGTTGTCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTC
 CCCACCGGGCAGCTGTCCAACATACCATGGCGTGGGCAGGGGTAAAGTACACAAACAAT
 GAAGCCTATTTTGATGTTGTTGAAGAAATAGACGCAATTATAGATAAATCAGGATCTACA
 GTCTTTGCAGAAATTGAGGGGTGATTGATGCTTGCAATTAACCTATCTGGAATGCCTGAT
 CTCTCCCTTTCTTTTATGAACCTAGGCTTCTGGATGATGTGAGCTTTTCAACCTGCATC
 CGGTTCAAGCGTTGGGAATCTGAAAGAGTTTGTGATTTATTCTCCAGATGGAAATTTTC
 CGACTCATATCATACCGTGTGAGCTCACAAAATCTAGTGGCAATACCAGTGTATGTGAAA

FIGURE 1 (CONT'D)

CATAGTATCAGCTTTAAGGAGAACAGTTCTTGCGGCAGATTTGATATAACAATTGGACCA
AAGCAGAATATGGGGAAAACCTATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTT
GTGCTGAACATGAACCTGACACCCACACAAGGCAGCTATACATTTGATCCAGTCACCAAG
GTACTAACATGGGATGTGGGAAAAATTACTCCACAAAAGCTCCAAGTCTTAAAGGACTG
GTAAATTTACAGTCTGGAGCCCCCAAACCAGAAGAGAATCCGAGCCTCAACATACAGTTT
AAGATCCAGCAGCTTGCTATTTTCAAGCTTAAAAGTAAACCGTTTGGACATGTATGGGGAG
AAATATAAGCCATTTAAAGGAGTCAAATACGTACGAAAGCTGGAAAGTTCCAAGTGAGG
ACATGAGAAGAGGCCAAAATTCCTCAGGACCAGTTTGTCTTCCAAGTGTATTACGATGT
ATCACTATTAGGTACCAAGTGAGTGGGAATACATATTCTAGTTAAAGCATTGTGTCTAG
CTACACACCGCTAACAAAGTTACTTAGTTATCAATGTAGGATTCTTAAGGAGCTTTAAGC
TAAGGAAACCTTTTAGTGACTTAGCTTATTTTGTATCTTTTCACTTAGGAAGATTTTGA
GGTGATTTTTTTCCATAGGAGGATACCATCTGGCGGCTGCACATTGTAACAGTAAAGGCA
GAAAGCTGTAGTGATAACCTCTCTCTAAAGAGTTAACTGGTCTCATCCAGCAGAAGCT
ATCTTAAATCTGTGATGTGTGAGGTGCAGCCAAATATCACACCTTCTGATCTTAGCCATC
CCAAACCAGTATCTGTCCCGAGAGGAAATTCACCCACCCCAAGTTTACAGAAAACCT
GCCTCTTCAAGTGTTTTGCCTTATTTCAGCTTTTCACTTGTGCCATTAAAGCAAGCACTGTAG
CAAAAGCCACTTCCACATGGCCCTGGCAGGGAGCACTGCTGCTCCATGCTCCATTCTCAC
TGTACTTGGTATTGTATTTTTTATAAATAAGATTTTTTATGTAAAGCTTAGAATTTGATTT
ACAGGGACCTTGCTGCAGTAAATACCATCTCAATTTTGTGCCACTGGTTTCACTGTTAGC
ACAGTAAAAAATCATTTGTATCAAAGGGGCAAATGCTTTATTAAGGTAGTAAAGGGAA
CATTACTTCTGCTTTTAGGAAGTTACTGCAAGCACAAGCATTGTGCTTTTAAGCAAATT
AAAGTAGTAAAGAAAAAATTAAGTGAACCTTTGCCATCTTCATGTTTTATAATATAAA
GCTTACCCAACACCAGTTAAGCCATGGTTAACCTAAATGCCTCATGCCCCAGTTCAGCAA
AAGGAGGAAAATGTGCCTGCCTCACAGTCATCAGTCTTTTTTAAATCTTTTTTGTGTTGT
TCTTAAGGGTTTTGAATTTGTCTGCATTCTTGTCTTTAGGGGAAATTCCTTTTTCATATT
GTGTGCTTCCCAAAGCTATAGTCATAGATTTCTTCCAGAAACTATTGTATAATTGTCAC
TGGAGTGCTTAAATATACGTACTATACTGACAAAATACATGGAAGTGAGTTATAATGAGG
CAGAAACAAAATCCTCGGTAACATTGATGATACTCTACCGATCACCGTGGTTTTGGAAAG
TCAGTCAACAGTTGTATTATTGCACTCAATTTTCAATTGTGACATTTTATTTAACTTCTTCA
TCTTGGTGGTCTTGGCCAGTTATTTTGCCTCATTAGACATCAAGAAATGGAGAAAGACT
GAAAGTTAATATCTTAAGTGCTTGTCTTTCATGTTTTCTTCTTGTATTATGCTATTCT
CTTTGTGGCTCCATTCTTCTTTCAATCTTCTCAGCTTATAACCGTCTTTCCCTTATGCTA
AGGATAGCCCTTACACTCATCCCATCTATGCTGTCAAGGGCTGCTGGTTGGTGCTGGTAC
AAGGAGCCCACTCAGCAGTTTTCTTACCTTTGCCTGCCCTGCCTTTTCAAGGAATAAGAAA
GGCAACGTTTTGCAGCTTCCAAATTTCTGAAGAACTAATCTCAGATTGGCAGTTAAAGT
CAAAATGTTGCCAAATATTTATTCCTTTTGCCTAAGTTTGGCTACCCGGTTCAATTGCTT
TTTATTTTTAATGTCTTGACTCTTCAGAGTTCTGTACCTCAAAAGAACAAATGAGAACATTT
GCTTTGCTTTCTGCTGAATCCCTAATCTCAACAATCTATACCTGGACTGTCCAGTTCTCC
TCCTGTGCTATCTTCTCTTCTATCCAAGTAGAATGTACGCCAGGAGCTCCTTCCCTCTAG
CAATTTCTACTAAAATGTCCAAGTAGAATGTTTCTTTTACAATCAAATTAAGTATTTA
TTAATTTGCTAGAATCCAGTAAATCATTTTGGTAGCTCTGGCTGTGCTATCAATAAAAAG
ATG

Gene 227. >ENST00000329262 cDNA sequence

ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCATGTAAGATC
GTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGT
ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGAT
GTCCCCAACATCAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCA
CTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
AAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGTCTGTGCC
ATGACAGAGGAGGAGCTGTTGCAATCAAGGCCATGGCAAAATAA

Gene 228. >ENST00000298180 cDNA sequence

CGCAGTCGGGGGGAGGCGGGCGGCAGCGGCTGCGGGCAGCGCGGGGGCGCAGGG
CGCGGGGCGATCACCGTCGGGGCTCGGGAGGCGGGCAGTGGGCACAGGCTCCCCGGTGCC

FIGURE 1 (CONT'D)

CGCCCCCTCCGCTGCGGAGGGGGGCGCGAGCGGGCGGCCGGGGAGGGGCGGCACCGCCG
 CCACAAAATGAGCCTGCTGTGCGCCATCGACACGAGCGCCGCTCGGTGTACCAGCCCGC
 CCAGCTGCTCAACTGGGTCTACCTGTGCTGCGTGCAGGACACGCACCAGGCTAGCGCCTTCGA
 TGCCTTCCGGCCCGAGCCGACCGCCGGCGCCGCACCCCGGAGCTGGCCTTCGGCAAGGG
 CCGCCCCGAGCAGCTGGGCTCGCCCCTGCACTCCAGCTATCTCAACAGCTTCTTCAGCT
 GCAGCGCGGAGAGGGCGCTGAGCAACAGTGTGTACAAGGGCGCCTCACCTATGGCTCCCT
 CAACAACATCGCCGATGGCCTCAGCTCCCTCACCGAGCACTTCTCAGACCTGACCCTCAC
 CTCGAGGCTCGCAAGCCAGCAAGCGGGCCCCACCCAACCTACCTGTGCCACCTGTGCTT
 CAACAAAGGACACTACATCAAGGACTGCCCCAGGCACGCCCCAAAGGCGAGGGCCTGAC
 TCCATACCAGGGCAAAAGCGCTGCTTCGGCGAGTACAAGTGTCCAAGTGAAGAGAAA
 ATGGATGAGCGGGAACCTCTGGGCCAACATGGGGCAGGAGTGCATCAAGTGCCACATCAA
 CGTGTATCCACACAAGCAGAGACCCCTGGAGAAGCCCGACGGCCTGGACGTGTCCGACCA
 GAGCAAGGAGCACCCGAGCACCTCTGCGAGAAGTGAAGGTCTGGGCTACTACTGCCG
 TCGCGTGCAGTGACGGGTGCCCCGCCCGCACCCAGAGCCACCCCCCGCCAGCCCGAGGAG
 ACGCTGCTTCCCTGTGCTACTCCGAGGGGTGCGTGTGCGCCTGTGCATGGGGTGCCCTC
 GCAGGCCTGCGGGGCTGGGCCGGGGGCTCTTAGCGTCCTTGTCTTGTGTGTGTTGACAAA
 CAGTGTACTGACATTGCTGCCCCCACAGGCCAGGGAAAGCAGGGAGTCTGGGGCTTTT
 TGCAGGCGGGCCTGGGGTCTCAGTGGAGGGGACAAAGGCAAGCAAAAGCCCATGTCCAGG
 AGCCCTGGGTGTCCCCACAGGCTCGCCTCTGAGAGCCTCTTTGGGGTGAGCAGCCTTGTA
 TTGGCCACAGGTGCACTAAATTGACTGTGAATCCCAAACCTCCCCAGACCAGCCAGGCCG
 CCTGCCCCACCCAGAACCTTCCGGTTTGCCCTGTATGGAAAGCCACTCTCAGAAATCCC
 TCTTTCCTGAGTCAGCAATCGTGGCAAGGGGACATGTGTTCCAACAGCGGCTGGGGAGTG
 GACCTCTCTGTCCCTTGCCACCTTAAGCCCCAAATCCAGACCCCTCTGACATCACTGG
 CATTGCACCTGGGTGTGCCCCCTCCCCACGCTATGGACCCAGATAGGAGGGGTTAGGCA
 TGGGGGAGGCACAGAATGCTGGAGAGATGCGTCCTGGTGAACGTGGGGCAGCCCCCTCCA
 CGACCCCCACCAGACTGCCTTAGGTTTTGTGAGCCCCACTCCCTTTCCTTCCCCTCTGCC
 TCCCACCCACTCTGGGGGTCCACATCAAGATAGCTGGGCCAGTGTGGAAGCCAGCGTG
 TCTGTTCCAGCAGAAAGGACACAAGCCTGGTGTCTGGAGACCTCGGCTCAAGTCTTTGC
 CCTGCTGCCGACGCATTGTGTACCTTGGGCAAGGACTTCGCATCTCCAGGCCTCAGTTT
 CCCCATTAGTTAAATGACAGCATAACACTAGAGAGCAGAGGGCCATTTTCAGCTCTGTTG
 TTCTGGGATTTCAGGCTGGCCGGTGCTGTGTCTGAGGCTTTATTTGGGGAGTTTACCCCA
 GAATGGTGGGAGAAACCTCCCAGGTGCCAGGTACCCCGCATCGTGACCCTTCACTTGGTG
 TCTTAGGAAGTCAAGCTGAGGGATGCTGAGTCTCCCTGCTGGCCCCCTGCAGCCCCAGC
 CCTGCTTTTTCATCCCCACCCCTGCAAACATGGAGGAGCCCCCTCCTTCTCACCTCGGTC
 TCCTAGCCCCCTGACATGGAGAACCCTGAGACAAGCCACAGAACCCTCTTTTCTAAAATG
 GAGACAATAATTTCTACCTCCCAAGGGAGCAGAGAGGCCTCGTGGCACGTCCGTGGCCA
 GGGAGCCCCACTGTCTGGCTGGCGGCGGGATCGTGCCTCCTCTGTCTCCCGGATGAGAA
 GCCCCGTTTCCATGGTCTTGACCTTCTCTTCTCCCGGCTGTGAGAACTGGGTCTCTTGA
 TTTTGCCCCCTACATTATGCCTCTGTGGGAAAAAAAAAAAAATCAGACCAAGAAATGAGCCT
 GAAATTGAGTGTTTACCATGGCTCAAGGATGCCCATCTGGTGTCCAGTTGCCTTTTGTAT
 TCAAATGAAAATGCTTTGTACAACTGAGGAGTTACAGTGAAAGTGTAAACCAGGGGTCCAG
 GGAGCGAGTTGAAAAGATGGAGTGAGTGTATTTGCAGCCAGGGAGCTGCAGGGTGGATTT
 GAGGGGCCATACCTCTGAGCACTTAAAAAAGGTATTTGCTCCAGGCCAGGCAGCAGGCT
 GTGGACACCTTGCCACCACTGGGGAAGTCCCACTGAGGACTCCCGAGCACGTGTTCCC
 CGTCTTCTCCAAGGTGTTGAGGTGAGCTGGGGTTGGCCCCGGCCAGGCTTCTGTCCCAA
 GGAGAAGCTGCCACTGACAGTCATCTACCGCACTGCTAAAGAGAATGTTGCGAGTGGTG
 GGCGGCGTGCCTGTGCCAACCTTCCAGGGACCCGGCCATGGGGGACCTTGGCCCAAGGA
 TGCCTGGGGCCTGCCAGCTGTGCTGCAAAGGTGGGGGGCCACACCCTAAAACTAACCCA
 GGCCCCAGACCACTGGAGGCCAGGGCTTCCCTGCACGGGCTAAGGGGAGTTGGGATATCA
 CCCCAGAGTGACCTTGCCAGTGAGCTGTTTCCAGAGGTAGCCACTGCCCTGCCATCTGTGC
 AGAGCCAGCCACCTTGGGGGCTGGGGTTCCCGCTTTGAGGCCACCTTCCATACTCCCCT
 TGACTCGGCTCTGGCTGAACTGGGGAACTCTCTTGTGGTCAAGCAAGCCCCCTGCCATGCA
 GGCCAGGTGCCATTGAGAATTAAGTGCTCAGAGGGCCAGGAGCCAGGGGATGGGAAAGT
 GTGTGGTTTTAGTACGTTCAAAGGGACAATCGCTTGCAGTTGGTAGATCTAGCGATCTA

FIGURE 1 (CONT'D)

GTTGGGAGATAATGGTGTTTACCCCATATGAAGTATTCAATAGTTCTACTTGTGAATTTG
TATTTATTTTGGAGTTATACTTGACACAGAATTCCTTTTTTAAAAAATATGTGTGTATTT
TGGAAAAAAATTCATAGATGTTAAAATTTCTGCATGGTTACCAGTTTTTCTCACAACAC
TGAATTTGGTAGCTTTTCCCGAAAAAATCTTCACAGTAATTTTTGTCTGTATATATTTG
AGGGCCTTTTTTAAAAAAGAGAGGCATTTTCAAAATTTCAGAACTTTAGGAGGGCAAGAGAA
TATCAAACAAAGATTTCTGGAAGTATTTTGCCAACCTTCTGGTTGAGCTGCAAGAAAATA
TTTATGGTGAGAACTTTTCTGTTTCCCGTTATTGGGTTTTTGGTTGGTTTTTGTGTGTTT
TTTACTATGCTTTGGTCTGTAAAAATATGCAACTGAACTACATTGAGAAGGAAATATTGT
CTACATAGAATATTATATGAAGTTGGTACATAATTCTGATGAGGAAAAAATCTTTGCA
ATTCCTTTAAGCCATATTGTTGTTTTTCTGTGTTGTTTTCCCTGGATGAAAATATCAGTAT
TAAGTAGACAGCATATTATTCAAGTGTTTAGACTTATTAATATGTTCTTGTCTGTATTT
ATACATATGTGTATTTTGGAAAGTATTGCCTTTTTTAAGGGAAGCTATAATTCGATACAT
AGTGAAAAAGGGAATGGTGACCCCTTTGTGCCTCTTCCACTGAGGATAACAAACAGCATT
GTAATCCATTCTCTTGACCTTCTTCTTCTTATCTTGTTATTACGGTTTTTATTAATTTTG
TAGAGGGACAGGGAGTGGGCAAGGGGAAGAAGCAGCTTATTTGACTAACAGCCCCCTCTG
TGGTCCACCAGCGTCTTGGCTTGGTGGGAGGGCTCTCAATCAGCAGGGCCCCAGGAGGGA
AGAAGAAGTGGGGCAAAGCCTGGCCTCGCCGCTCGGGAGCTTTGCCATCTGAGCCACGCC
TCCTCCAGGCCATGCTCCTTGAACTTGGAATGTCAACCGGAGCCCTTACACCAGCCCTC
CAGCATCTAATAGACTTGAATCTACTCTAAACGAATATTTAATCCAACCTCACTACATTG
TAGCTCAGTCCAACGACTAACCCCTGAAATGGGGGTGTTCCAGCCTTCAGCGAGATGGCCA
AGCGGTCCCCTGGGGGCTGTGGCAGCGGGCTTATCCTTCTCTGTTGCCAACCTTGCCGTC
CGACCTCCTCCGCCCCCATGCGGTGACCCCGTCCGTGTCTGTGTCTGTCCATACGTGTGA
GTCCAGCTAAAAAGACAAACAGAACCCGTGGGCCCAGCTCGGAAGGTGCGTGGAGAAGG
CTCCGACGTCTCCGAAGTGACAGCCCTTGGGATGGCATTCCGTTGTGTGCCTTATTCTGG
AGAATCTGTATACGGCTCGCCTATAGAAATATAGCCTCTTCATGCTGTATTAAAAGGACT
TTTAAAAGC

Gene 229. >ENST00000328784 cDNA sequence

ATGTGGCTGTGCCCTCTGGCCCTCACCCCTCATCTTGATGGCAGCCTCTGGTGCTGCGTGC
GAAGTGAAGGACGTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCCACGGC
CTGCCAGGCAGGGACGGGAGAGATGGTGTCAAAGGAGACCCTGGCCCTCCAGGCCCATG
GGTCCGCTGGAGAAACACCATGTCTCCTGGGAATAATGGGCTGCCTGGAGCCCCCTGGT
GTCCCTGGAGAGCGTGGAGAGAAGGGGGAGGCTGGCGAGAGAGGCCCTCCAGGGCTTCCA
GCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTCAGACATCAAATCCTGCAG
ACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCC
AGCAATGGGCAGTCCATCACTTTTGATGCCATTTCAGGAGGCATGTGCCAGAGCAGGCGGC
CGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAG
TACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTAC
TCAGATGGGACCCCTGTAACTACACCAACTGGTACCGAGGGGAGCCTGCAGGTCCGGGA
AAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTAC
TCCCGACTGACCATCTGTGAGTTCTGA

Gene 230. >ENST00000334434 cDNA sequence

ATGGCTATAGATTGTGGTTTGACACTCCTGGCTGCCCACTGCAGCTCTGGGGCAATGTCA
GTGTTTACGTTTCCTTCCCTCAACTTGGCGGCAACAGAGGAAAGGACCTTAGTAGTGGTTGT
GGTCAAGGGTCTTTTGCTTGTATCCTGGGAGCTCCACACCAGAGAGATGTAGGTGAGCAA
TTCCTCAGTGCAATCACCCAGGATGA

Gene 231. >ENST00000334432 cDNA sequence

CCCAAGCAGCTGGAGGCTCTGTGTGTGGGTGCTGATTTCTTGGAGCCTGAAAAGAAAGT
AACACAGCAGGGATGAGGACAGATGGTGTGAGTCAGTGAGAGCAGCGACTGGACCCAGAG
CCATGTGGCTGTGCCCTCTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGCTGTGT
GCGAAGTGAAGGACGTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCCACG
GCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGACCCTGGCCCTCCAGGCCCA
TGGGTCCACCTGGAGAAATGCCATGTCTCCTGGAAATGATGGGCTGCCTGGAGCCCCTG
GTATCCCTGGAGAGTGTGGAGAGAAGGGGGAGCCTGGCGAGAGGGGCCCTCCAGGGCTTC

FIGURE 1 (CONT'D)

CAGCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTTAGACATCAAATCCTGC
AGACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCT
CCAGCAATGGGCAGTCCATCACTTTTGTATGCCATTGAGGAGCATGTGCCAGAGCAGGCG
GCCGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGA
AGTACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCT
ACTCAGACGGGACCCCTGTAAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTGCGG
GAAAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGT
ACTCCCGACTGACCATCTGTGAGTTCTGA

Gene 232. >ENST00000329658 cDNA sequence

GGCACTCCTGGATCCCACGGCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGAC
CCTGGCCCTCCAGGCCCCATGGGTCCACCTGGAGAAATGCCATGTCTCCTGGAAATGAT
GGGCTGCCTGGAGCCCCCTGGTATCCCTGGAGAGTGTGGAGAGAAGGGGGAGCCTGGCGAG
AGGGGCCCTCCAGACAAAGTGGTCAGTGGCCTGACCCGGAATCCTCTGCTCTCAGCCCTC
AGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCCAGCAATGGGCAGTCC
ATCACTTTTGTATGCCATTGAGGAGCATGTGCCAGAGCAGGCGGCCGATTGCTGTCCCA
AGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAGTACAACACATATGCC
TATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTACTCAGACGGGACCCCT
GTAAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTGCGGGAAAAGAGCAGTGTGTG
GAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTACTCCCGACTGACCATC
TGTGAGTTCTGA

Gene 233. >ENST00000318314 cDNA sequence

GGTGTCTCTGGGTGGGGGTGATGGGGTGTGGGATGATGCCAGCCGGCATGGAGGAAATGGG
GTGGCACGGCTATGGGGGTGGCAGGATTCCTCTGCTCCCTGCACTGAAGAGAGGAGGG
CTTTGTAGAACCTCTGGGGCAAGTGTGGGAGGCCTGCTGCAGACATGGGGCCAGCGGTC
TCTGCTGCCACAGGGCTTGGCCCAGCGCCTGCCTCTCAGGTAGTCTGGAGGAAGCCACAG
TCATTGAACCAAGTATCCTTGTCCCACTCCCTCCCTTTTCTAGCCTCTCTTGGGTGCGGG
AAGGGGGAGCTCAGTGTCCCCTCCCTTGCACCCCTCTGCCTCCACCAGCCTGGAGGTTGG
GCCCAGGCCTGTGGGGGTGGGGAGGTGGCCACCCACTTGGCTGTCCCAGCCCTGTCCCAG
ACAGCCCTGTATTCTCTGCAGCCTGGGCTTGTTCCTCAACAGGGGTGAGGCTCCTGGGATGG
GCCTGGCTCACCTGGGGCTCTCCCCTGCCCCCACAGTGGTCTTGTCTGCGGAGCCCGAGGC
CCCAATGACTGGAACCTCAATATCTACTTCAACTGCACTGACTTGAACCCAGCCGGGAG
CGCTGCGGGGTGCCCTTCTCCTGCTGCGTCAGGGACCTGCGGAGGATGTCTCAACACC
CAGTGTGGCTACGACGTCCGGCTCAAACCTGGAGCTGGAGCAGCAGGGCTTCATCCACACC
AAAGGCTGCGTGGGCCAGTTTGTAGAAGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGA
GTCTTCATGGGCATCGCCCTCCTCCAGATCTTTGGCATCTGCCTGGCCCAGAACCTCGTG
AGTGACATCAAGGCAGTGAAAGCCAACCTGGAGCAAATGGAATGATGACTTTGAAAACCAC
TGGCTTACGCCACCATTTCCGAGGTCTGTCCACGGCGGGGCTCAGCAGAACTCTCTG
ACTGGGGCCCCTGGCCCGGCCCCACCCAGCCGACATGTTTTCTTTGGCCTGGGTGGTTTA
TACCCTGAGCCAACCTTTAAAATTGGTAG

Gene 234. >ENST00000310032 cDNA sequence

CGCGGGGCGCTGGGCCTGGCTCCCGGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTCACC
ATGCCCGGCAAGCACCAGCATTTCCAGGAACCTGAGGTGCGCTGCTGCGGGAAATACTTC
CTGTTTGGCTTCAACATTGTCTTCTGGGTGCTGGGAGCCCTGTTCTGGCTATCGGCCTC
TGGGCCTGGGGTGAGAAGGGCGTTCTCTCGAACATCTCAGCGCTGACAGATCTGGGAGGC
CTTGACCCCGTGTGGCTGTTTGTGGTAGTTGGAGGCGTCATGTGGTGTGGGCTTTGCT
GGCTGCATTGGGGCCCTCCGGGAGAACACCTTCTGCTCAAGTTTTTCTCCGTGTTCTCTC
GGTCTCATCTTCTTCTGGAGCTGGCAACAGGGATCCTGGCCTTTGTCTTCAAGGACTGG
ATTGAGACCAGCTCAACCTCTTCATCAACAACAACGTCAAGGCCTACCGGGACGACATT
GACCTCCAGAACCTCATTGACTTTGCTCAGGAATACTGGTCTTGCTGCGGAGCCCGAGGC
CCCAATGACTGGAACCTCAATATCTACTTCAACTGCACTGACTTGAACCCAGCCGGGAG
CGCTGCGGGGTGCCCTTCTCCTGCTGCGTCAGGGACCTGCGGAGGATGTCTCAACACC
CAGTGTGGCTACGACGTCCGGCTCAAACCTGGAGCTGGAGCAGCAGGGCTTCATCCACACC
AAAGGCTGCGTGGGCCAGTTTGTAGAAGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGA
GTCTTCATGGGCATCGCCCTCCTCCAGATCTTTGGCATCTGCCTGGCCCAGAACCTCGAG

FIGURE 1 (CONT'D)

CAAATGGAATGATGACTTTGAAAACCACTGGCTTACGCCCACCATTTCGAGGTCTGTGTC
CACGGCGGGGCTCAGCAGAACTCTCTGACTGGGGCCCCTGGCCCGGCCCCACCCAGCCG
ACATGTTTTCTTTGGCCTGGGTGGTTTATACCCTGAGCCAACCTTTAAAAATTGGTAGAT
TTCACATAAAAGTCCAGATCCACAGCTTCTCTTGAAGAATGACCACCTGGCTACGCCGGC
TCTTCGGTGGCAACACTACCTGGGACACTGCCTCCCCAGTCACCAAGGGCCCCAGCTGGC
CCGTTCTACTCACCTAAGTGCCGCCTGACCTTGTACACTAGGAGCTGGCCTCCACCTC
TGCAGGGTTATTCCCTGCACCTCGAGGCCGCTGCGGGCCAATCTGGAGTGAAACACGGGG
ACCTGAAGGATGGAGAGGCTGGACCCCGCTTTGAAGAGGGTGAGCCTGGGAAGGGCGGC
CTTGCTGGGGACTGCGGTGGGAGTAGAGTGCCAGGAGAGGGTCTGAGGGGTGGGATGGG
GGTCAGGACAATTTTGAAAAGAAGTAGCTGGAAGCCATGGGACTGGCGGGAGCCTGTTT
GGGGGATCTGGATGGTTGACTCCTAGGAGTCAAGTTCAGCATCTTCACCGTGGCTGCAGA
GCTGCCTGATGGGCACTAGAGGGCATGCCAGCCCCACACTCCCTGGGTCTGGCTTCCTCC
CGCAACCTCACTCTAGTAGAGCCTGTGCCTGCCTACTAGCGCTCTGGGGTTCGGAGAGTT
TGGGAATTTCTCAGAGCCAACCTGGCTCAGGCTTGGGAAGGCTGGCTGCTGCCCTCAGCTC
CGCCTCATCAGCTATGTGAAGGGGTGTGTGTGGAGTGATCCTGCCGCCCCCTCCCTGGGC
TCGTCCAGAGATCTCAAACCTCCGATGCCCCCTGGGGCCACGTATGTTGTATAAATGGATGA
AACAGGCCCTTGAGTTGGGAGCCTGCTTCACTTTGACTTTCCCACTGTTGCTGGAGACAA
AGACATCGTGATGAGAGAAAGTTTCGCACAATCTAGTCGGTAACAGCCACTTTCCTTGAGA
CCAAGAGAGTGCGGTGGGGATGGGGGGGAGAGCAGGGTCCCCGTCTGACAGTGGCCGCT
GCCATATTCAGGTGTAGCTAATTGCTCTGGTGTGGGAATGCAGGCCTAATGACAGAAATC
TGGAGAAGCCAGAAATACAGATTTGTATGTGAGATGTCCTGATTTTTTAAGTTGTTGGCA
GAAATTAATTAGAAATCAAATCTGCAGGCCAAACAAGGTGCAGGACCCAGCTTTGGCCC
CATGCCCCGTAGGTCCCTCTGGGACAGTCACCGCTGGGGTCTGGCTGCTCTGTATTG
AGGGATGCTGGGCACTGCTGCCGGGTGGCCAGGGTATGGGGCATGTGCCAGCAATGTGG
CTCCTTGGCCCCGCTGGCCAGTGTCTGGGGCCCTGACAGGCGCTGGCTGTGAGTGGTTT
GTACATGCTACAATAAATGCAGCTGGCAGCATT

Gene 235. >ENST00000298564 cDNA sequence

GAGGCCATGAAGCCGACGCCCGCGGCTAGGCCCGGGCGGCTCTAGCCCAGGGCGGGCC
GCGGGGCGCTGGGCCTGGCTCCCGGCTCCGGTTTTCCGGGCCGGCGGGTGGCCGCTACCA
TGCCCGGCAAGCACCAGCATTTCAGGAACCTGAGGTGGCTGCTGCGGGAAATACTTCC
TGTTTGGCTTCAACATTGTCTTCTGGTTCTCCGTGTTTCTCGGTCTCATCTTCTTCTGG
AGCTGGCAACAGGGATCCTGGCCTTTGTCTTCAAGGACTGGATTTCGAGACCAGCTCAACC
TCTTCATCAACAACAACGTCAAGGCCTACCGGGACGACATTGACCTCCAGAACCTCATTG
ACTTTGCTCAGGAATACGAGGATGTCTCAACACCCAGTGTGGCTACGACGTCCGGCTCA
AACTGGAGCTGGAGCAGCAGGGCTTCATCCACACCAAAGGCTGCGTGGGCCAGTTTGAGA
AGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGAGTCTTCATGGGCATCGCCCTCCTCC
AGGTACCTTTGTGGCCCCACGTGCCCCCTCCCCCTTGCCGGGGCCGCCCTCACTCTCCCTC
ACCTGTCTCTGTCTTACAGATCTTTGGCATCTGCCTGGCCCAGAACCTCGTGAGTGACA
TCAAGGCAGTGAAAGCCAACCTGGTGA

Gene 236. >ENST00000274797 cDNA sequence

GGCTCCGGTTTTCCGGGCCGGCGGGTGGCCGCTCACCATGCCCGGCAAGCACCAGCATTTC
CAGGAACCTGAGGTGCGCTGCTGCGGGAAATACTTCTGTTTGGCTTCAACATTGTCTTC
TGGGTGCTGGGAGCCCTGTTCTGGCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTT
CTCTCGAACATCTCAGCGCTGACAGATCTGGGAGGCCTTGACCCCGTGTGGCTGTGTGGT
AGTTGGAGGCGTCATGTGCGGTGCTGGGCTTTGCTGGTGCATTGGGGCCCTCCGGGAGAAC
ACCTTCCTGCTCAAGTTTTTCTCCGTGTTTCTCGGTCTCATCTTCTTCTGGAGCTGGCA
ACA

Gene 237. >ENST00000261947 cDNA sequence

GGACTTTGTGTTCCGCTGACCTCCTCGGGGCGCTTCTCCCGTGCCGCCCTTCCCCTCC
CCCGCCGCTCCTTGCGAGGCGCCTCCCATTCGGTGGGACCGACCCGGGGGGATGGAGGG
GGCACGCTTCTACAACCTCCTGGGACCCCGAAGAGACGCCCGCGTGCGACCTGAGACGC
CGCCCTCGCCGAGGGCCCATGGGCGCGTCCCCACAGGCGGGCAGTGGACGTGAGGGCGGC
GAGCGGCGGGGCCGCGCGTCCAGGAGGGCCGCGCTCGGGCTCGGCCCGCGCAGGCCGC
GCGCGCGCGCTCCCGCCGCGCCCGGGCCGCGCCCGCCCGCCTCTAGGCGCCGGCCCCG

FIGURE 1 (CONT'D)

GAGCCCGGTCCGCGAGCAGCGGCGGCTGCCGGAGGGACGATGAGCTGCGCGGGGCGGGCG
GGCCCTGCCCGGCTCGCCGCGCTCGCCCTGCTGACCTGCAGCCTGTGGCCGGCACGGGCA
GACAACGCGAGCCAGGAGTACTACACGGCGCTCATCAACGTGACGGTGACGAGCCCGGC
CGCGGCGCCCCGCTCACGTTTCGCATCGACCGGGCGCTACGGGCTTGACTCCCCAAG
GCCGAGGTCCGCGGCCAGGTGCTGGCGCCGCTGCCCCCTCCACGGAGTTGCTGATCATCTG
GGCTGTGATCCACAAACCCGGTTCTTTGTCCCTCCTAATATCAAACAGTGGATTGCCTTG
CTGCAGAGGGGAAACTGCACGTTTAAAGAGAAAATATCACGGGCCGCTTTCCACAATGCA
GTTGCTGTAGTCATCTACAATAATAAATCCAAAGAGGAGCCAGTTACCATGACTCATCCA
GGCACTGGAGATATTATTGCTGTGATGATAACAGAATTGAGGGGTAAGGATATTTTGAGT
TATCTGGAGAAAAACATCTCTGTACAAATGACAATAGCTGTTGGAATCGAATGCCACCG
AAGAACCTTCAGCCGTGGCTCTCTAGTCTTCGTGTCAATATCCTTTATTGTTTTGATGATT
ATTTCTTCAGCATGGCTCATATTCTACTTCATTGAGAAGATCAGGTACACAAATGCACGC
GACAGGAACCAGCGTCGTCTCGGAGATGCAGCCAAGAAAGCCATCAGTAAATTGACAACC
AGGACAGTAAAGAAGGGTGACAAGGAACTGACCCAGACTTTGATCATTGTGCAGTCTGC
ATAGAGAGCTATAAGCAGAATGATGTCTCGTCCGAATTCTCCCTGCAAGCATGTTTTCCAC
AAATCCTGCGTGGATCCCTGGCTTAGTGAACATTGTACCTGTCTATGTGCAAACCTTAAT
ATATTGAAGGCCCTGGGAATTGTGCCGAATTTGCCATGTACTGATAACGTAGCATTGAT
ATGGAAAGGCTCACCAGAACCCAAGCTGTTAACCGAAGATCAGCCCTCGGCGACCTCGCC
GGCGACAACCTCCCTTGGCCTTGAGCCACTTCGAACCTTCGGGGATCTCACCTCTTCCTCAG
GATGGGGAGCTCACTCCGAGAACAGGAGAAATCAACATTGCAGTAACAAAAGAATGGTTT
ATTATTGCCAGTTTTTGGCCTCCTCAGTGCCTTCACTCTGCTACATGATCATCAGAGCC
ACAGCTAGCTTGAATGCTAATGAGGTAGAATGGTTTTGAAGAAGAAAAACCTGCTTTCT
GACTGATTTTTGCCTTGAAGGAAAAAGAACCTATTTTTGTGCATCATTTACCAATCATGC
CACACAAGCATTTATTTTTAGTACATTTATTTTTTATATAAAATTGCTAATGCCAAAGCT
TTGTATT

Gene 238. >ENST00000231683 cDNA sequence

CTCCTGCCCTCCACTGACTCCAGAGAGGGAGATCCCCAGTACTTGACTCCATCACGCAGA
TGGGAGCAGGCACCAGCTATGGAGAGGGATACAGCTGCGTCTCCACATGACCCATCCTGC
ATGACACCAAAGCCACCGCCAGACAGTGCCTCGGATTCTATGCAAAACCTGGGAAGCGGA
GACCTACCCAGCCCCGGGAGGAAGCTAGCTCTTCAGGGGACCGTCTGAGGACTGGAGTT
TGATCCATGAACCTGGCTTCGAGGCCTTGCTTTTTCTCTCTTCTTCATTTCATTTCC
CAACACCTTAGAAGGTGTTGCTTAATTTATTTCTAGAAAAGCAGCCAGAGTCAGTCATT
GAAGCCTTCCCCACCCCTGGCCAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
TCTGTTGGGAGCTTGGAGTCCAGTGGTTGGCATAGTTGTACATTGGGAGCAGAGAAGAA
GCAACCAGGGGCCCTGATCAGGGGACTGAGCCGTAGAGTCCCAGGATGGCACCCAATGGC
ACAGCCTCTTCCTTTTGCTGGACTCTACCGCATGCAAGATCACCATCACCCTGGTCCCTT
GCGGTCTCATCCTCATCACCGTTGCTGGCAATGTGGTCTGTCTGGCCGTGGGCTTG
AACCGCCGGCTCCGCAACCTGACCAATTGTTTCATCGTGTCTTGGCTATCACTGACCTG
CTCCTCGGCCTCCTGGTGTGCCCTTCTCTGCCATCTACCAGCTGTCTGCAAGTGGAGC
TTTGGAAGGTCTTCTGCAATATCTACACCAGCCTGGATGTGATGCTCTGCACAGCCTCC
ATTCTTAACCTCTTCATGATCAGCCTCGACCGGTACTGCGCTGTGATGGACCCACTGCGG
TACCCTGTGCTGGTCACCCAGTTCCGGTCCGCATCTCTCTGGTCTTAATTTGGGTCTATC
TCCATTACCCTGTCTTTCTGTCTATCCACCTGGGGTGGAACAGCAGGAACGAGACCAGC
AAGGGCAATCATACCACCTCTAAGTGCAAAGTCCAGGTCAATGAAGTGACGGGCTGGTG
GATGGGCTGGTCACCTTCTACCTCCCGCTACTGATCATGTGCATCACCTACTACCGCATC
TTCAAGGTGCGCCGGGATCAGGCCAAGAGGATCAATCACATTAGCTCCTGGAAGGCAGCC
ACCATCAGGGAGCACAAAGCCACAGTGACACTGGCCGCCGTGATGGGGGCTTCATCATC
TGCTGGTTTCCCTACTTCACCGCTTTGTGTACCGTGGGCTGAGAGGGGATGATGCCATC
AATGAGGTGTTAGAAGCCATCGTTCTGTGGCTGGGCTATGCCAACTCAGCCCTGAACCCC
ATCCTGTATGCTGCGCTGAACAGAGACTTCCGCACCGGGTACCAACAGCTCTTCTGCTGC
AGGCTGGCCAAACCGCAACTCCCAAAAACCTTCTCTGAGGTCCAACGCCTCTCAGCTGTCC
AGGACCCAAAGCCGAGAACCAGGCAACAGGAAGAGAAACCCCTGAAGCTCCAGGTGTGG
AGTGGGACAGAAGTCACGGCCCCCAGGGAGCCACAGACAGGTAATAGCCCTAGCCATTG
GTGCACAGGATGGGGGCAATGGGAGGGGATGCTACTGATGGGAATGATTAAGGGAGCTGC

FIGURE 1 (CONT'D)

TGTTTAGGTGGTGTCTGGTTTATGTTCTAGGAACTCTTCATGAGCACTTTGTAAACACCCT
 CTTGCTTAATCCTCCCAACGGCCCCCAAAGGTAGAACTTAGCTCCCTTTTAAAAGGAGCA
 CATTAAAATTCTCAGAGGACTTGGCAAGGGCCGCACAGCTGGGGCCT
 Gene 239. >ENST00000261956 cDNA sequence
 GGACCTGGGGGTGATCTCCAGCATCTCGCTGTCTGGTTCTTGACCCTCTTCCTCAGCGT
 CATGCCCTTCGAGAGCGCCGTGGTCATCGTCGACTGCTTTTTCTATGAGGGCATCAAGGT
 GATCCTGCAGGTGGCCCTGGCCGTCTGGACGCCAACATGGAGCAGCTGCTGGGCTGCAG
 CGACGAGGGCGAGGCCATGACCATGTGGGCAGATACCTGGATAATGTGGTCAACAAGCA
 GAGTGTCTCTCCTCCTATCCCGCACCTCCGTGCCCTTGCTGAGCAGCAGCGATGACCCCCC
 TGCAGAGGTGGACATCTTTGAGCTCCTGAAAGTGTCTATGAGAAATTGAGCAGCCTGAG
 GGCCGAAGACATTGAGCAGATGCGGTTTAAACAGAGGCTGAAAGTGATCCAGTCCCTGGA
 GGACACGGCCAAGAGGAGTGTGGTCCGAGCTATACCTGTGGACATTGGTTTCTCCATTGA
 AGAGCTGGAGGACCTTTACATGGTGTTTAAGGCCAAGCACCTGGCTAGCCAGTACTGGGG
 GTGCAGCCGCACAATGGCCGGCCGTGGGACCCAGCCTGCCCTACCTGGAGCAGTACCG
 GATTGATGCCAGCCAGTTCGGGAACTCTTTGCCAGCCTGACACCCTGGGCCTGTGGCTC
 CCACACACCTCTGCTGGCAGGGCGCATGTTGAGGCTCCTGGACGAAAACAAGGACTCGCT
 GATCAACTTCAAGGAGTTCGTGACAGGGATGAGCGGGATGTACCAGGGGACCTGACAGA
 GAAGCTCAAGGTGCTCTACAAGCTACACCTTCCCCAGCTCTGAGCCCAGAGGAAGCCGA
 GTCAGCCCTGGAGGCGGCCATTATTTACAGAGGACAGCTCCTCAGAAGAAGCACTACC
 ACAGGAAGAGCAAGAAGGAAGTGAAGTGAGGAGAGAGGAGAGGAGAAGGGGACCAGCTC
 TCCGGACTATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAAGAGGCTCAGAAGGAGAC
 GATTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTCATTGAGCTGTGCAAGACGCTTTA
 CAACATGTTTCAGTGAAGACCCCATGGAGCAGGACCTGTACCACGCCATCGCCACCGTGGC
 CAGCCTCCTGCTCCGCATCGGAGAGGTGGGGAAGAAGTTCTCAGCCCGCACAGGCAGGAA
 GCCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCCGAACATGCATCAGGACGC
 AGCCAGGGAGCTTCAGCCCCCAGCTGCAGGAGACCCCAAGCCAAAGCAGGCGGAGACAC
 ACACCTCGGAAAAGCCCCACAGGAGAGCCAGGTGGTGGTGGAGGGGGGAGCGGCGAGGG
 ACAGGGCTCACCTCCCAGCTGCTGTCTGACGATGAAACCAAAGACGACATGTCCATGTC
 CTCCTACTCGGTGGTCAGCACGGGCTCCCTGCAATGTGAAGACCTTGCAGACGACACGGT
 GCTGGTGGGCGGGGAGGCCTGCAGCCCCACAGCGCGCATCGGCGGCACCGTCGACACCGA
 CTGGTGCATCTCCTTTGAGCAGATCCTGGCCTCCATCCTGACGGAGTCCGTGCTGGTGAA
 CTTCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGACCAAAGAAAGTGGAGAG
 ACAGTTTCAGCACCGCCAGTGACCATGAGCAGCCTGGAGTTTCCGGCTGATGCCTGCAGCT
 GTGAGGCCTGGCCCAAGGTGTGATCAGTGGGGCTGGCCTCATCTCCTCCTGCCTTTCTC
 CCTTATCAGTTTTCTCTTTAAAGGTGTGCCCCCTCCTGCTCTCCAGGAGCAGTGAGTTGTG
 AGTGGAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGATTCCCTGGGCCTGCATCT
 CCTGGCGCCGGCTGCTTCTGGGCCCAGGAAGAGGCTGTGGCTCCACCTTCTTACACCT
 GGTGGGAGCCCGCCTCGCACCCAGCTGCACCTGCCTAGCATTACAGGCTCTCAGATCTGCC
 CTTGCTTGCCCTCATACCTCTGTGCTCCACACTGCGGCCAGGCCAGCTGAGTCCCTCCATC
 CGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTATTCTGCTCTTGGCACCAGGT
 TGGGGGGCATGTGCTTGTGGGCACCAAAGTGATGGAACCCTCAGGTGCTCTCCGGGAGC
 CTGAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTGCACAGAGTGGGCGCTGC
 GCACAGGCGTGGCTGTACACGTGCTCTCAGCTCATCATCTTTCCAGTAACTTTAAAAAA
 ACATCCCTCAGGTCTGATATATTTCTTTGGATTCAATTTCACTTGGCTAGAAATTACACT
 GTGCTCAATGCCTTAATAAATCCCTGAAAGAAATAAAAAACCACTGTGTGCAATGCCTTGC
 TGTGGCCCCCAACCACTGCTTAGGCCTCCCAACTTCTCCCCAGGCCAAGTATGGGGCCCT
 GGCTGTGTTCTGGAAGTTCAAGACACTTAGTCCTCCACAGTGGGTGGAAGAGTGCAAGGT
 CTGCCAGGTGAGATGGAGACGCAGAACCTGCTGGTGCAAGCTGGGCAGGTCTTGACCAAC
 CTGCATCAGGGGATGCCCTGAGCTCCACAGGTCTTCATGGGCAGGGGTGTGGGTCTGG
 TGAAGGAAGTGATCCTCAGGCCTGGGCTGTAGCAAGCTGTCTGCCCTTGGGTTCAGAA
 CCAGACTGTGGAGCCAAAGGTGACCGCAGGGGGCCCCAGGGCTGGAGCCACAAGGATACC
 CTCACTTTGCATGAGGAGCTGAAACTGACAGTGTCCAGTGTTAGCCCCCACATGGGGCT
 GCTCTTGCTTCTACTAAAAGATACAGCAGTTACCCCTTATCCACAGGGGATACAGTGGA
 TATCTAAAACCAGACCCCCAGTGGATGTCTAAACCACAGATAATAACAAACCTTATACA

FIGURE 1 (CONT'D)

TACTGTTTTTTCCTATGCATACATACCTGTGATTAAGTTTATGAATTAGGCACCTTAAGA
GATTGACAACAATAACTAATAATAAAATGTAACGGTTATACTGT

Gene 240. >ENST00000312107 cDNA sequence

CGCGGGCCTCGGCCCCGGTGCAGCGGGCTCCGCGATGTGGCTGAGCCCGGAGGAGGTGCTG
GTGGCCAATGCGCTGTGGGTGACGGAGCGGGCCAACCCCTTCTTCGTGCTGCAGCGACGC
CGGGGCCACGGCAGGGGGCGGCGGCCTTACGGGTCTTCTCGTGGGCACCCTGGACGTGGTG
CTGGACTCCAGTGCCCCGCGTGGCCCCCTTACCGCATCCTGCACCAGACCCAGGACTCCCAG
GTCTACTGGACAGTGGCGTGTGGTTCTTCCCGCAAAGAGATCACAAAACACTGGGAATGG
CTGGAATAAATACTTGCTCCAGACACTGTCCATCTTCGACAGTGAGGAAGATATCACCACC
TTCGTCAAGGGCAAGATACACGGAATCATCGCAGAAGAGAACAAGAACCTGCAGCCCCAG
GGAGACGAGGACCCCGGAAGTTCAAGGAGGCTGAGCTGAAGATGCGGAAGCAGTTTGGG
ATGCCTGAGGGCGAGAAGCTGGTGAATTACTACTCCTGCAGCTACTGGAAGGGCCGCGTG
CCCCGGCAGGGCTGGCTGTACCTGACGGTCAACCACCTGTGCTTCTACTCCTTCCTGCTG
GGGAAGGAAGTGAGCCTCGTGGTGCAGTGGGTGGACATAACGCGTCTGGAGAAGAACGCC
ACCCTGCTCTTCCCCGAGAGCATCCGTGTGGACACCCGCGACCAGGAGCTCTTCTTCTCC
ATGTTCTCTCAACATCGGCGAGACCTTCAAGCTCATGGAGCAGTTGGCCAACCTGGCCATG
CGGCAGCTGCTGGACAGCGAGGGCTTCTGAGGACAAGGCCCTGCCTAGGCCCATCCGG
CCACACAGGAACATCTCAGCCCTGAAGCGAGACCTGGACGCCCCGAGCCAAGAATGAGTGC
TACCGAGCCACGTTCCGGCTGCCCAGGGATGAGCGGCTAGACGGCCACACAAGCTGCACC
CTGTGGACGCCGTTCAACAAGCTGCACATCCCTGGCCAGATGTTTCATCTCCAACAATACTAC
ATCTGCTTCGCCAGCAAGGAGGAGGACGCTTGCCACCTCATCATACCCCTGAGGGAGGTG
ACCATTGTGAAAAAGCTGACAGCTCCAGCGTGTGCTGCCAGCCCCCTGTCCATCAGCACC
AAAAGCAAAATGACATTCTGTTTTGCCAACCTGAAAGACCGTGATTTCTTGTTGCAGAGG
ATCTCTGACTTCTCTCAGAAAAACCATCCAAGCAGCCAGGCAGTATCGGGAGCAGGAAA
GCCAGTGTTGTGGACCTTAGCACAGAGTCTTCCCCAGCTCCTCAGGAGGGGTGCGAGCAG
CCCCGCCAGCCCAGCCTCTCCCCCTCAGCAGCCGCCAGAGCTTCTGTGCGCAGGAGGCGCCA
ACCGCATCCCAGGGCCTGCTGAAGCTCTTCCAGAAAACTCGCCCATGGAGGACCTTGGA
GCCAAGGGGGGCCAAGGAGAAGATGAAAGAGGAGTCATGGCACATCCACTTCTTCGAGTAC
GGGCGTGGCGTGTGCATGTACCGCACAGCCAAGACGCGGGCACTGGTCTGAAGGGTATC
CCTGAGAGCCTCCGGGGAGAGCTGTGGCTCCTCTTCTCCGGGGCCTGGAATGAGATGGTG
ACTACCCCGGGTACTATGCTGAGCTGGTGGAGAAGTCCACCGGGAAGTACAGCCTGGCC
ACAGAGGAGATCGAGCGAGACCTGCACCGCTCCATGCCCGAGCACCTGCCTTCCAGAAC
GAGCTGGGGATTGCTGCCCTCCGGCGGGTGTGACTGCCTATGCCTTCCGAAACCCACC
ATCGGCTACTGCCAGGCAATGAACATCGTGACCTCGGTGCTCCTGCTCTATGGCAGTGAG
GAGGAGGCCTTCTGGCTCCTGGTGGCCCTGTGCGAGCGCATGCTGCCCGACTACTACAAC
ACCAGGGTGGTGGGAGCCCTGGTGGACCAAGGCATCTTCAAGAGCTCACGAGAGACTTC
CTGCCGAGCTCTCGGAGAAGATGCAGGACCTGGGGGTGATCTCCAGCATCTCGCTGTCC
TGGTTCTCTGACCTCTTCTCAGCGTCATGCCCTTCGAGAGCGCCGTGGTTCATCGTGCAC
TGCTTTTTCTATGAGGGCATCAAGGTGATCCTGCAGGTGGCCCTGGCCGTCTTGACGCC
AACATGGAGCAGCTGCTGGGCTGCAGCGACGAGGGCGAGGCCATGACCATGCTGGGCAGA
TACCTGGATAATGTGGTCAACAAGCAGAGTGTCTCTCCTCCTATCCCGCACCTCCGTGCC
TTGCTGAGCAGCAGCGATGACCCCCCTGCAGAGGTGGACATCTTTGAGCTCCTGAAAGTG
TCCTATGAGAAATTCAGCAGCCTGAGGGCCGAAGACATTGAGCAGATGCGGTTTTAAACAG
AGGCTGAAAGTGATCCAGTCTTGGAGGACACGGCCAAGAGGAGTGTGGTCCGAGCTATA
CCTGTGGACATTGGTTTTCTCCATTGAAGAGCTGGAGGACCTTTACATGGTGTTTAAGGCC
AAGCACCTGGCTAGCCAGTACTGGGGGTGCAGCCGCACAATGGCCGGCCGTGGGACCCCC
AGCCTGCCCTACCTGGAGCAGTACCGGATTGATGCCAGCCAGTTCGGGGAACCTTTTGCC
AGCCTGACACCTGGGCCTGTGGCTCCACACACCTCTGCTGGCAGGGCGCATGTTTCAGG
CTCCTGGACGAAAAAAGGACTCGCTGATCAACTTCAAGGAGTTCGTGACAGGGATGAGC
GGGATGTACACGGGGACCTGACAGAGAAGCTCAAGGTGCTCTACAAGCTACACCTTCCC
CCAGCTCTGAGCCCAGAGGAAGCCGAGTCAGCCCTGGAGGCGGCCATTATTTCACAGAG
GACAGCTCCTCAGAAGCATCTCCTCTGGCCTCAGATCTGGATCTTTTCTGCCCTGGGAG
GCTCAAGAAGCACTACCACAGGAAGAGCAAGAAGGAAGTGGAAGTGAGGAGAGAGGAGAG
GAGAAGGGGACCAGCTCTCCGGACTATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAA

FIGURE 1 (CONT'D)

GAGGCTCAGAAGGAGACGATTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTTATTGAG
 CTGTGCAAGACGCTTTACAACATGTTTCAAGAGACCCATGGAGCAGGACCTGTACCAC
 GCCATCGCCACCGTGGCCAGCCTCCTGCTCCGCATCGGAGAGGTGGGAAGAAGTTCTCA
 GCGCCGACAGGCAGGAAGCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCC
 GAACTGCATCAGGACGCAGCCAGGGAGCTTCAGCCCCCAGCTGCAGGAGACCCCCAAGCC
 AAAGCAGGCGGAGACACACACCTCGGAAAAGCCCCACAGGAGAGCCAGGTGGTGGTGGAG
 GGGGGCAGCGGCGAGGGACAGGGCTCACCTCCCAGCTGCTGTCTGACGATGAAACCAA
 GACGACATGTCCATGTCTCTTACTCGGTGGTCAGCACGGGCTCCCTGCAATGTGAAGAC
 CTTGCAGACGACACGGTGTGGTGGGCGGGGAGGCCTGCAGCCCCACAGCGCGCATCGGC
 GGCACCGTCGACACCGACTGGTGCATCTCTTTGAGCAGATCCTGGCCTCCATCCTGACG
 GAGTCCGTGCTGGTGAAGTTCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGAC
 CAAAAGAAAGTGGAGAGACAGTTTCAACACCGCCAGTGACCATGAGCAGCCTGGAGTTTCC
 GGCTGATGCCTGCAGCTGTGAGGCCTGGCCCAAGGTGTATCAGTGGGGCTGGCCTCATC
 TCCTCCTGCCTTTTCTCCCTTATCAGTTTCTCTTTAAAGGTGTGCCCTCCTGCTCTCCC
 AGGAGCAGTGAGTTGTGAGTGGAAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGAT
 TCCCTGGGCCTGCATCTCCTGGCGCCGGCTGCTTCTGGGCCAGGAAGAGGCTGTGGCTC
 CCACCTTCTTACACCTGGTGGGAGCCCGCCTCGCACCCAGCTGCACCTGCCTAGCATTAC
 AGGCTCTCAGATCTGCCCTTGTCTGCCTCATACCTCTGTGCTCCACACTGCGGCCAGGCC
 AGCTGAGTCCCTCCATCCGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTATTCTT
 GCCTCTTGGCACCAGGTTGGGGGGCATGTGCTTGTGGGCACCAAAGTGATGGAACCTC
 AGGTGCTCTCCGGGAGCCTGAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTG
 CACAGAGTGGGCGCTGCGCACAGGCGTGGCTGTACAGTGTCTCTCAGCTCATCATCCTTT
 CCAGTAACCTTTAAAAAATCATCCCTCAGGTCTGATATATTTCTTGGATTCAATTTCACT
 TGGCTAGAAATTACACTGTGCTCAATGCCTTAATAAATCCCTG

Gene 241. >ENST00000274620 cDNA sequence

CGGCAGGCATTTCAGGCGGACAGAAACGGGGCTTGGCGCCCCCGCGTGCACGTGTGCTA
 GCCCAGGCAGGAGGGAGCGCCTCGGCGGAGGAGTCAAGGAAGAGGGGGAGGGAGAAACGC
 GCCAGAACCTCGGCCCCGGGCGCCCTCGTCCGCGCGGAGGAGCTGCAGCCTCCAACAGGA
 AGGTGTGGTCCCTGCCATGCTATCTGCTCTGCTCAGCGACTGAAGGTGCCCGCATCCCAG
 CTCTGCCAGGAAGCAAAGGTTGTACATCTTCCCAAGCCAGGCCAGCCAGGAGCGCTGCA
 TGCAAAATCTGCCGTGGGCTAAGGCACGCTAACCCAGAGCCGGCGGCATGGACTTCGTAT
 GAAGCAGGCCCTTGGAGGGGGCCACAAAGGACATGGGGAAGATGCTGGGGGGAGAGGAGGA
 GAAGGACCCCCGACGCGCAGAAAAAGGAGGAGGAGCGGCAGGAGGCGCTGCGGCAGCAGGA
 GGAGGAGCGTAAGGCCAAGCACGCGCGCATGGAGGCGGAGCGGGAGAAGGTCCGGCAGCA
 GATCCGAGATAAGTATGGGCTGAAGAAGAAGGAGGAGAAGGAAGCAGAGGAGAAAGCAGC
 CCTGGAGCAGCCCTGCGAGGGGAGCCTGACCCGGCCCCAAGAAGGCCATCCCTGCGGGCTG
 CGGGGACGAGGAGGAGGAGGAAGAGGAGAGCATCCTGGACACGGTGTCAAATACCTGCC
 CGGGCCGCTGCAGGACATGTTCAAGAAGTAACCAGGCCTCCTGCCCCAGCCTACTCCACC
 TGTTACTACTTCTTTTTGGTTCTTTCTTTTCTTTTATTAGGTAAAGTCTCAATTCTGAA
 GGGGAAAACCTCAGTTGGCCTCTGCCCCCTTTCCCTGGCCAGGGGCTTCTCCCCCTCAGC
 TCTCCCTCACACCTCCCTTCATCCAGGGTATCC

Gene 242. >ENST00000231229 cDNA sequence

AGAACAGCGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCACCTTGAG
 CATTAGGCCAGTTCTCCTCTTCTCTAATCCATCCGTACCTCTCCTGTATCCGTTTC
 CATGCCGTGAGGTCCATTACAGAACACATCCATGGCTCTCATGCTCAGTTTGGTTCTGA
 GTCTCCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTTGGGCCAGACAAGCCTGTCCAGG
 CCTTGGTGGGGGAGGACGCAGCATTCTCCTGTTTCTGTCTCCTAAGACCAATGCAGAGG
 CCATGGAAGTGCGGTTCTTCAAGGGCCAGTTCTCTAGCGTGGTCCACCTCTACAGGGACG
 GGAAGGACCAGCCATTTATGCAGATGCCACAGTATCAAGGCAGGACAAAACCTGGTGAAGG
 ATTCTATTGCGGAGGGGCGCATCTCTGAGGCTGGAAAACATTAAGTGTGTTGGATGCTG
 GCCTCTATGGGTGCAGGATTAGTTCCAGTCTTACTACCAGAAGGCCATCTGGGAGCTAC
 AGGTGTGAGCACTGGGCTCAGTTCTCTCATTTCCATCACGGGATATGTTGATAGAGACA
 TCCAGCTACTCTGTGAGTCTCGGGCTGGTTCCCCCGGCCACAGCGAAGTGGAAAGGTC
 CACAAGGACAGGATTTGTCCACAGACTCCAGGACAAACAGAGACATGCATGGCCTGTTTG

FIGURE 1 (CONT'D)

ATGTGGAGATCTCTCTGACCGTCCAAGAGAACGCCGGGAGCATATCCTGTTCCATGCGGC
 ATGCTCATCTGAGCCGAGAGGTGGAATCCAGGGTACAGATAGGAGATACCTTTTTTCGAGC
 CTATATCGTGGCACCTGGCTACCAAAGTACTGGGAATACTCTGCTGTGGCCTATTTTTTG
 GCATTGTTGGACTGAAGATTTTCTTCTCCAAATTCCAGTGTAAGCGAGAGAGAGAAGCAT
 GGGCCGGTGCCTTATTCATGGTTCCAGCAGGGACAGGATCAGAGATGCTCCACATCCAG
 CTGCTTCTCTTCTTAGTCCTAGCCTCCAGGGGGCCAGGCCCAAAAAGGAAAATCCAG
 GCGGAACCTGGACTGGAGAAGAAAGCACGGACAGGCAGAATTGAGAGACGCCCGGAAACAC
 GCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCACCCGAAGCTCTGCGTTTCTGATCTG
 AAAACTGTAACCCATAGAAAAGCTCCCCAGGAGGTGCCTCACTCTGAGAAGAGATTTACA
 AGGAAGAGTGTGGTGGCTTCTCAGAGTTTCCAAGCAGGGAAACATTACTGGGAGGTGGAC
 GGAGGACACAATAAAAGGTGGCGCGTGGGAGTGTGCCGGGATGATGTGGACAGGAGGAAG
 GAGTACGTGACTTTGTCTCCCGATCATGGGTACTGGGTCTCAGACTGAATGGAGAACAT
 TTGTATTTACATTAAATCCCCGTTTTATCAGCGTCTTCCCCAGGACCCACCTACAAAA
 ATAGGGGTCTTCTGGACTATGAGTGTGGGACCATCTCCTTCTTCAACATAAATGACCAG
 TCCCTTATTTATACCTGACATGTGCGTTTTGAAGGCTTATTGAGGCCCTACATTGAGTAT
 CCGTCTATAATGAGCAAAATGGAACCTCCCATAGTCATCTGCCAGTCACCCAGGAATCA
 GAGAAAGAGGCCTCTTGGCAAAGGGCCTCTGCAATCCCAGAGACAAGCAACAGTGAGTCC
 TCCTCACAGGCAACCACGCCCTTCTCCCCAGGGGTGAAATGTAGGATGAATCACATCCC
 ACATTCTTCTTTAGGGATATTAAGGTCTCTCTCCAGATCCAAAGTCCCGCAGCAGCCGG
 CCAAGGTGGCTTCCAGATGAAGGGGGACTGGCCTGTCCACATGGGAGTCAGGTGTCTG
 CTGCCCTGAGCTGGGAGGGAAGAAGGCTGACATTACATTTAGTTTGCTCTCACTCCATCT
 GGCTAAGTGATCTTGAAATACCACCTCTCAGGTGAAGAACCGTCAGGAATTCCCATCTCA
 CAGGCTGTGGTGTAGATTAAGTAGACAAGGAATGTGAATAATGCTTAGATCTTATTGATG
 ACAGAGTGTATCCTAATGGTTTTGTTTCATTATATTACACTTTTCAGT

Gene 243. >ENST00000330037 cDNA sequence

CAGCAGAAAACCAATGCTGTTAAGAAATTACATAAATGTGATGAATGTGGGAAATCCTTC
 AAATATAATTTCCCGCCTTGTTCAACATAAAAATTATGCACACTGGGGAAAAGCGCTATGAA
 TGTGATGACTGTGGAGGGACTTTCCGGAGCAGCTCGAGCCTTCGGGTCCACAAACGGATC
 CACACTGGGGAGAAGCCGTACAAGTGTGAGGAATGTGGGAAAGCCTACATGTCTACTCC
 AGCCTTATAAACCACAAAAGCACCCATTCTGGGGAGAAGAACTGTAAATGTGATGAATGT
 GGAAATCCTTCAATTATAGCTCTGTTCTGGACCAGCATAAAAGGATCCACACTGGGGAG
 AAGCCCTATGAATGTGGTGAAGTGTGGGAAGGCCTTCAGGAACAGCTCTGGGCTCAGAGTC
 CACAAAAGGATCCACACGGGGGAGAAGCCCTATGAATGCGACATCTGTGGGAAAACCTTC
 AGTAACAGCTCTGGCCTTAGGGTCCATAAAAAGGATCCACACAGGTGAGAAACCTTACGAA
 TGTGATGAGTGTGGGAAGGCCTTCATTACTTGTAGAACACTTCTCAACCATAAAAAGCATC
 CACTTTGGAGATAAACCTTATAAATGTGATGAGTGTGAGAAATCTTTTAATTATAGCTCT
 CTTCTCATTACAGCATAAAGTCATCCACACTGGAGAGAAAACCTTATGAATGTGATGAATGT
 GGGAAAGGCTTTCAGGAACAGCTCAGGCCTCATAGTGCATAAAAAGGATCCACACAGGAGAG
 AAACCTTACAAGTGTGATGTCTGTGGCAAAGCATTACAGCTATAGCTCAGGCCTCGCAGTC
 CATAAAAGCATTACCCCTGGGAAGAAAGCCCATGAATGTAAGGAGTGTGGGAAATCCTTT
 AGTTATAACTCACTACTTCTTCAACACAGAACTATTATACCGGAGAGAGACCTTATGTA
 TGTGATGTGTGTGGGAAAACGTTTCAAGAAACATGCAGGCCTCAAAGTCCACAGGAGGCTC
 CATACTGGGGAAAAACCATATAAGTGTGATGTGTGTGGGAAAGCCTATATCTCACGCTCT
 AGCCTTAAAAATCACAAAGGAATCCACCTTGGGGAGAAGCCCTATAAATGTAGCTATTGT
 GAGAAATCCTTCAACTACAGCTCTGCCCTTGAAACAGCATAAAAGGATTATACACAGGGAA
 AAACCTTTGGGTGTGATGAGTGTGGTAAAGCTTTTCAAGAAATAATTCTGGCCTTAAAGTA
 CATAAACGAATCCACACTGGGGAACGACCTTACAAATGTGAAGAATGTGGGAAAGCATAC
 ATCTCTCTCTCGAGCCTTATAAATCATAAAAGTGTACACCTGGGGAGAAGCCCTTTAAG
 TGTGACGAGTGTGGGAAGGCCTTCAGGAACAGCTCAGGCCTCACAGTGCATAAAAAGGATC
 CACACAGGTGAGAAACCTATGAATGTGATGAGTGTGGGAAGGCATACATCTCACACTCA
 AGTCTTATCAATCATAAAAGTGTCCACCAGGGGAAGCAGCCCTATAATTGTGAGTGTGGG
 AAATCCTTCAATTATAGATCAGTCCTTGACCAGCACAAAAGGATCCCACTGGAAAGAAG
 CCATACCGATGTAATGAGTGTGGTAAGGCTTTTAATATCAGATCAAATCTCACCAGCAT
 AAAAGAACCATACTGGAGAGGAA

FIGURE 1 (CONT'D)

Gene 244. >ENST00000302108 cDNA sequence

GAGGATGAGGAACCAACTGAAGAATATGAAAATGTTGGAAATGCAGCATCTAAGTGGCCA
AAAGTGGAGGATCCTATGCCTGAATCTAAGGTTGGTGACACATGTGTTTGGGATAGCAAG
GTAGAGAATCAACAGAAAAAGCCTGTGGAAAAACAGGATGAAGGAGGACAAAAGCAGCATC
AGGGAAGCAATCAGCAAAGCCAAGAGTACAGCAAATATAAAGACAGAACAGGAAGGCAAA
CGTGTGGAGAACATTAATGGAACCTCCTACCTAGTCTACAGCAGAAAACCAATGCTGTT
AAGAAATTACATAAATGTGATGAATGTGGGAAATCCTTCAAATATAATTCCCGCCTTGTT
CAACATAAAATTATGCACACTGGGGAAAAGCGCTATGAATGTGATGACTGTGGAGGGACT
TTCGGGAGCAGCTCGAGCCTTCGGGTCCACAAACGGATCCACACTGGGGAGAAGCCGTAC
AAGTGTGAGGAATGTGGGAAAGCCTACATGTCTACTCCAGCCTTATAAACCAACAAAAGC
ACCCATTCTGGGGAGAAGAAGCTGTAAATGTGATGAATGTGGAAAATCCTTCAATTATAGC
TCTGTTCTGGACCAGCATAAAAGGATCCACACTGGGGAGAAGCCCTATGAATGTGGTGAG
TGTGGGAAGGCCTTCAGGAACAGCTCTGGGCTCAGAGTCCACAAAAGGATCCACACGGGG
GAGAAGCCCTATGAATGCGACATCTGTGGGAAAACCTTCAGTAACAGCTCTGGCCTTAGG
GTCCATAAAAGGATCCACACAGTCATCCACACTGGAGAGAAACCTTATGAATGTGATGAA
TGTGGGAAGGCCTTCAGGAACAGCTCAGGCCTCATAGTGCATAAAAGGATCCACACAGGA
GAGAAACCTTACAAGTGTGATGTCTGTGGCAAAGCATTAGCTATAGCTCAGGCCTCGCA
GTCCATAAAAGCATTACCCCTGGGAAGAAAGCCCATGAATGTAAGGAGTGTGGGAAATCC
TTTAGTTATAACTCACTACTTCTTCAACACAGAACTATTATACCGGAGAGAGACCTTAT
GTATGTGATGTGTGTGGGAAAACGTTTCAAGAAATGCAGGCCTCAAAGTCCACAGGAGG
CTCCATACTGGGGAAAAACCATATAAGTGTGATGTGTGTGGGAAAGCCTATATCTCACGC
TCTAGCCTTAAAAATCACAAAGGAATCCACCTTGGGGAGAAGCCCTATAAATGTAGCTAT
TGTGAGAAATCCTTCAACTACAGCTCTGCCCTTGAACAGCATAAAAGGATTATACACAGG
GAAAAACCCCTTTGGGTGTGATGAGTGTGGTAAAGCTTTAGAAATAATTCTGGCCTTAAA
GTACATAAACGAATCCACACTGGGGAACGACCTTACAAATGTGAAGAATGTGGGAAAGCA
TACATCTCTCTCTCGAGCCTTATAAATCATAAA

Gene 245. >ENST00000333055 cDNA sequence

GGCTTTTGACTGACTGGATGTGGGAATGTTGTGGAAGACTTCTGGCCTGCCATTTCTGA
GAACGGGACTGCTGAGAGAGGAGCTGGGAGGAGCACTGCAAATTTCACTTTGGACACGTG
AGTCAGAGAAATCTGCCTCCTGGGCCATGCCGCTTCTAAGGCCTGTTTCTTCTCATGAGC
CCCAGCACAAAGACAGATGGGCCAGTTCTCACAGTGGATAACTTCCCCTGCCTGAGCAAGA
GATGGGATAGTATCTGGGATCTGTCCATCACCAGACTCTGAGCTTAATAAGGCAGCTGAA
TGAAGGGAGGTAACGGACCCCTGAGAGGGGCACTGAAGTCTGCAGTGGGGGGGGAGGGGC
CTGGACACACCCCTTCCCCCCCAGACTCCTCCCCGTGAGGGTCACTCAGCCATGGACTT
TGGACCTGGATAAGAAGAGAGAAGCTGCACTTTGGTGGATCTGATTTGGGATTCTCAGTT
TTGAAAATGGAGTGTGAATGGGGATTTGATGATCTCCTGGAGAGCAACTGAGACAAGAG
AAGAAAGGTGCATGGCTGCCTCCTAATCCCATAGTCCAGAGGAGGCATCCCTAGGACTGC
GGGCAAGGGAGCCGGGCAAGCCAGGGCAGCCTTGAACCGTCCCCTGGCCTGCCCTCCCC
GGTGGGGGCCAGGATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTGTGGGGCGCTATCCT
CTTTGTGGCCTGGAATGCCCTGCTGCTCCTCTTCTTCTGGACGCGCCAGCACCTGGCAG
GCCACCCTCAGTCAGCGCTCTCGATGGCGACCCCGCCAGCCTCACCCGGGAAGTGATTG
CCTGGCCCAAGACGCGGAGGTGGAGCTGGAGCGGCAGCGTGGGCTGCTGCAGCAGATCGG
GGATGCCCTGTGAGCCAGCGGGGAGGGTGCCACCGCGGCCCTCCCGCCAGCCGCG
TGTGCCTGTGACCCCGCGCCGGCGGTGATTCCCATCCTGGTCATCGCCTGTGACCGCAG
CACTGTTTCGGCGCTGCCTGGACAAGCTGCTGCATTATCGGCCCTCGGCTGAGCTCTTCCC
CATCATCGTTAGCCAGGACTGCGGGCACGAGGAGACGGCCAGGCCATCGCCTCCTACGG
CAGCGCGGTACGACACATCCGGCAGCCCGACCTGAGCAGCATTGCGGTGCCGCGGACCA
CCGCAAGTTCCAGGGCTACTACAAGATCGCGCGCCACTACCGCTGGGCGCTGGGCCAGGT
CTTCCGGCAGTTTCGCTTCCCCGCGGCCGTGGTGGTGGAGGATGACCTGGAGGTGGCCCC
GGACTTCTTCAGTACTTTTGGGCCACCTATCCGCTGCTGAAGGCCGACCCCTCCCTGTG
GTGCGTCTCGGCCTGGAATGACAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCTGA
GCTGCTCTACCGACCGACTTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTG
GGCTGAGCTGGAGCCCAAGTGGCCAAAGGCCTTCTGGGACGACTGGATGCGGCGGCCGGA
GCAGCGGCAGGGGCGGGCCTGCATACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCG

FIGURE 1 (CONT'D)

CAAGGGTGTGAGCCACGGGCAGTTCTTTGACCAGCACCTCAAGTTTATCAAGCTGAACCA
GCAGTTTGTGCACTTCACCCAGCTGGACCTGTCTTACCTGCAGCGGGAGGCCTATGACCG
AGATTTCTCGCCCGCTCTACGGTGCTCCCCAGCTGCAGGTGGAGAAAGTGAGGACCAA
TGACCGGAAGGAGCTGGGGGAGGTGCGGGTGCAGTATACGGGCAGGGACAGCTTCAAGGC
TTTCGCCAAGGCTCTGGGTGTCTGGATGACCTTAAGTCGGGGGTTCCGAGAGCTGGCTA
CCGGGGTATTGTACCTTCCAGTTCGGGGGCCCGTGTCCACCTGGCGCCCCCACTGAC
GTGGGAGGGCTATGATCCTAGCTGGAATTAGCACCTGCCTGTCTTCTGGGCCCCCTCCT
TGCCACATCATGAGCTGAGGTGGGACCACAGTCCCCAGGCTGCATCGGCCTGCCTGTGTT
TCCCTCTTAGGTGCATTTATCTTTTGTATTTTCCGAGTGGCATTTAAGTGACAAATGA
TAACAAGAGGATTATTCTCCCGTTCTCAAGGGAGTCAGATCAGGGGAACTATTCTAGGGT
ATGTTGCGGGGTATTAAGCAGGAAACCACTGTGTGGTGGGGGGCACTGGGCTTGTGGGG
CCAGAAATGTCCACGTCTGAGCTTTCTCCTGGAGCATGTGCAGAGAGTTTGGCAACGTT
CGCTCTCTTGACCAGACCCCTTCTCCCTGACCTGGCTCTTCCAGCCAGGGCACGAGCCCT
CCTTCTATACCTGCTCCCCCTTCCCCAGTGGGGACTGAGTTATGGGAGAAGGGGACATAT
TTGTGGCCAAATGATACTAACCAGGGGCTTCTTGTGAGGGCTGGTGGAGTTGGTG
GGTCATCGGGGCTCACTGCCTCCTGCCCTTCTCTCCTGTCTGACCCCCACTTAGCCCTTC
TCTCCTTGAGCCTAGCAGTTTATAGTTCTGAGATGGAAAGTTGAAGGGGGCAAGCAAGA
CCTCTCCTCAGCCCATGCCAGCTGTGAGGAGAGGTGCAGGGAGGAAGGCCTTGTGCT
GGGACAACCTCTCTCTTGCTTACCTCAGAGAGGGACTATGCCCTGACCCCTCCTTTCTG
AAAATCAGTGCCTCCTGTTGCTCTAGGAGGCTCCTGCTGGCTTGGTAGAAGACAGAAT
TCGATCTGCCTGTCCCTTTTTCCCTGGGGTTTGACACACAGGCTCCTCTCAGCATGAGG
TGGAGCAGTGACCAGGTGGAGCAGTGACCAGGACGCCTCTGGCCAGTGTGCCAGCCT
CCCCGCCGCTCCAGGCGCCCCATGTCTCAGGCCAGGACGCCATGGCAGGATGGAG
AGGACTTGGTGGATTTTTGTTTCTTGCTGACCTCAGTTTCATGAAAGAAAGTGGAAGCT
ACAGAATTATTTTCTAAAATAAAGGCTGAATTGTCTG

Gene 246. >ENST0000307826 cDNA sequence

ATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTGTGGGGCGCTATCCTCTTTGTGGCCTGG
AATGCCCTGCTGCTCCTCTTCTTCTGACGCGCCAGCACCTGGCAGGCCACCTCAGTC
AGCGCTCTCGATGGCGACCCCGCCAGCCTCACCCGGGAAGTCTTCCGGCAGTTTCGCTTC
CCCGCGGCCGTGGTGGTGGAGGATGACCTGGAGGTGGCCCCGGACTTCTTCGAGTACTTT
CGGGCCACCTATCCGCTGCTGAAGGCCGACCCCTCCCTGTGGTGCCTCTCGGCCTGGAAT
GACAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCTGAGCTGCTCTACCGCACCGAC
TTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTGGGCTGAGCTGGAGCCCAAG
TGGCCAAAGGCCTTCTGGGACGACTGGATGCGGCGGCCGAGCAGCGGCAGGGGCGGGCC
TGCATACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCGCAAGGGTGTGAGCCACGGG
CAGTTCTTTGACCAGCACCTCAAGTTTATCAAGCTGAACCAGCAGTTTGTGCACTTCACC
CAGCTGGACCTGTCTTACCTGCAGCGGGAGGCCTATGACCGAGATTTCTCGCCCGCGTC
TACGGTGCTCCCCAGCTGCAGGTGGAGAAAGTGAGGACCAATGACCGGAAGGAGCTGGGG
GAGGTGCGGGTGCAGTATACGGGCAGGGACAGCTTCAAGGCTTTTCGCCAAGGCTCTGGGT
GTCATGGATGACCTTAAGTCGGGGGTTCCGAGAGCTGGCTACCGGGGTATTGTACCTTC
CAGTTCCGGGGCCCGCTGTCCACCTGGCGCCCCCACTGACGTGGGAGGGCTATGATCCT
AGCTGGAATTAG

Gene 247. >ENST0000261942 cDNA sequence

GACGGGTGAGGAGCGTAGAGGCGGCGGCAAAATGGCGGCGCTGAGGAGCGGGATCTAAC
CCAGGAGCAGACAGAGAAGCTGCTGCAGTTTCAAGGATCTCACTGGCATCGAATCTATGGA
TCAGTGTGCGCATACCTTGGAAACAGCATAACTGGAACATAGAGGCTGCTGTACAGGACAG
ATTGAATGAGCAAGAGGGCGTACCTAGTGTCTTCAACCCACCTCCATCACGACCCCTGCA
GGTTAATACAGCTGACCACAGGATCTACAGCTATGTTGTCTCAAGACCTCAACCAAGGGC
AAGGCTGCTTGGATGGGGTTATTACTTGATAATGCTTCCATTCCGGTTTACCTATTACAC
GATACTTGATATATTTAGGTTTGTCTTTCGTTTATACGGCCTGACCTCGCAGCCGGGT
CACTGACCCCGTTGGGGACATTGTTTCAATTTATGCACTCTTTTGAAGAGAAATATGGGAG
GGCACACCCTGTCTTCTACCAGGGAACGTACAGCCAGGCATTAACGATGCCAAAAGGGA
GCTTCGCTTTCTTTTGGTTTATCTTCATGGAGATGATCACCAGGACTCTGATGAGTTTTG
TCGCAACACACTCTGTGCACCTGAAGTTATTTCACTAATAAACACTAGGATGCTCTTCTG

FIGURE 1 (CONT'D)

GGCATGCTCTACAAACAAACCTGAGGGATACAGGGTCTCACAGGCTTTACGAGAGAACAC
CTATCCATTCTGGCCATGATTATGCTGAAGGATCGAAGGATGACTGTGGTGGGACGGCT
AGAAGGCCCTCATTCAACCTGATGACCTCATTAAACCAACTGACATTTATCATGGATGCTAA
CCAGACTTACCTGGTGT CAGAACGCCTAGAAAGGGAAGAAAGAAACCAGACCCAAGTGCT
GAGACAACAGCAGGATGAGGCCTACCTGGCCTCTCTCAGAGCTGACCAGGAGAAAGAAAG
AAAGAAACGGGAGGAGCGGGAGCGTAAGCGGCGGAAGGAGGAGGAGGTGCAACAGCAAAA
GTTGGCAGAGGAGAGACGGCGGCAGAAATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATG
CCTGCCCCCTGAACCTTCCCCTGATGACCCTGAAAGTGTCAAGATCATCTTCAAATTACC
TAATGATTCTCGAGTAGAGAGACGATTCCACTTTTACAGTCTCTAACAGTAATCCACGA
CTTCTTATTCTCCTTGAAGGAAAGCCAGAAAAGTTTCAGATTGAAGCCAATTTTCCCAG
GCGAGTGCTGCCCTGCATCCCTTCAGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGC
CGGACTCAGCCACACAGAAGTTCTTTTTGTTTCAGGACCTAACTGACGAATGACATTTTTT
TCTTCCTGTCCCCTCCTACCCAGTCCCTAAAAGAAATGGGGAAAAAGAAAAACAACAGC
AAGTCAGAAAAAACAAGAGAGAGAAATTATATTATTATTATTATTATAATACAAT
ATTTTTTTTTTAAAGACTGCTGCATCCTTAGGAAGGATCAGAAACCATGCTGCCCGTAAGA
GTCACAACCTGTGTGTGCGCGCAAGGTTAGCAACAAACGTACCCGCTTGGCAAGCCCACC
CTTCCTGTGGCCTCTGTGCACGCACCTTCCAGTGAACAGAGACTCTTCACCTTCGACCCA
TCCATTGTCCCAGCTGGGAAGGGGACATTCCCACTAGTTCTCATTATTCTTGCTTTTAT
GAAAAATAAAAGTGA AAAACCTCCATCAACCAGCTACTTGCAGCATCTCCTGAGGACTTG
CTTCTCCTGCCTCTGGGGAAGAGAGGGGAAGAGAAAGCACAGAGCAGAGAAGCAGAGATGT
TCCTTGAAGTGCACACAAGTTTTCAATAACTTTTTATTTCTGTTTTGTAATGACCAAAGGA
ATGAGGCTGACATAGGTATATATATATATATTTTTTCTTTATTTGATAAAGAGCCAATTC
TTTAAACCCATGAGTTTATGCCCTGGGCTCCTTAGCCCACAATAGTGTAATAAAAGTGCC
CCGGGCTGGTTTTGTGCTTATTTCTGCCATTGTCCCTCTCACGTTCCAGAGAGGTCATT
TTTTTGGTCCAACCTTTGCTGTCTTTCTTACCACCTGTGCACCCCACTTGGAGCAGTGG
GAGGAAATCTGGGTTTTGTGGCCCCACAAAGGCTGTATATGTAAAGATACACCTATGTATG
TGGTGGAACTCACCTTTACACACAACCTGCAGCTTTTTCTTGGAGTCTGTACCAGGTGGTG
GTTATGGGGTCTGAACCAAAGGATAGCAGCTCTTCATTCTCTTCTGACATGTGCATGCT
GCTCCCCCAGCCCTGGGCTTTCTGAATTGCCAAGCCTGGTGCCTTTCCAAAGGACTAG
CAGGGCCTGTGGTGGAGCCAGCAGAACCACAGGAGAGTGCCCTGCCTGTCTCAGTGGAAG
TGTATTATTGTTTTAAGGATAGAACCAGAGGCCTTGAAGGGAGCCAAGACAGAACTCCCA
GCCTGTGTAATCTATTGGAAGGCACATTTTTCATTTCTGATGCAGCCACCTTCTGGAGGCA
GCTTTTATCCTTTCTCTCTATTGCTATGTTGAAGTAATAGGGTTTTTTTTTAACCTCTGGA
TGTCTCGTCTGTGGTTGAGTTTATGGTAATGGGTACATGGGTGAGGCCATGTATTAACAG
ATGCCAGTGCGCTCTGACAAGTATTCAAAGTGTTCTGTAGCTAGACTGGTGCAGGCTCG
TTGTACCACTGCAACCGACTGACGTTACTGTAGTTCTCTAGAATGCTGTGAGGGCGGGGGG
TTCAGATCAACATAAAGCCTAACTTGCTGGAGTTGTAGTCTCAAGGCTTTCTCTCTTGCT
TAACTAAAACCTAAGGACCACTGTTTTTGGTAGCAATTATATGGTTACTATCCACTGCAG
TCCTCAGTTGTTGGGGTAAATCCACATGGCAGAGTAAGGCACCCACAGAAATTAACCTT
GGAGAGCCTGAGAAATTCAGTGCCCTTGGCATAGCTGTCTAGAACACCATCTCTAGGA
AAATTTAATTCTGTCCCTGGCCAGCTATTGTTCTTCCACTTCGTTTTCTGCTGTCCCAAG
GCCAGATGAGTGGAAATCACCATCTGACTGCTGTCAATAAAATGTATCTGGCGTGAACAGC
AGGATAACCCATGTTCTCCACATAAGGATAACCTTACGTGAAACCTTCTGCTGACAACC
ATGCAGAGGAATTTTTCCACTTAAGTCAGAGCCTTCCCTCCCATCTGGAATTCACAGCTG
TTCCCTGGCAGCACACAGGAGGGTATTAAGGACCTTTGTGAGGCTAGGTACACTGTCCAC
ACCTCTTTGGGGAAGTTACGATTTTTTTTTTCCATCATAATTAGTCTCTTCTTATTCTA
CAGTGTGCACTTTATGCCTCTCGCCTTTTGATAATAGTTGTTGAGTGAAGGAAGTCAGCT
GCCAGAATATTAAGAAGGGTCTCCCTTTATGTGAGTACAACCTGTTAGGGCGGCCTTCCCA
TTTACTTTAGGTTTCAAGAGGATTACCCGGAAGCACATGCCCCGGTCTAGTCCCATTGGA
AACAGTTCTGCTTTACTGAGACCCTAGGCCGGTCTCCTTGCTGACCCTAGCGCTGCTGCC
TAGGTGCCATTTCTTTCTCCTCAGTCAAATACAGGCTGCACATTTTGTCACTTAATGC
CAGTACAATCTGTGTTACTCCTAAGGACTTTTGGGATTTTGATGAGACCTGCGAGGGAGA
AGACACTGAGAAGCCAGTGATCTGCAAGCATTTGCTCTTGTTCACATCACCTCTGGGA
TATTTAGCTGTTGTTTCAAATGGCAAATCATCAACTAAAAGCACTTGTTTCAAGTTTTT

FIGURE 1 (CONT'D)

GTTCTGCACTCCACGACTGAAGTTGTAGATTGAGCTGAATAACCATGGGAAGTGACCAA
GCAAAGACACTCGATTGGAGTCAGTTGAATATTTGTACCCTCAGTGGAGCCCTTCTGGTC
TTTTCTTCCACTTCTGCAGAATTTCTCTAGCAAATACTTCTTTCTCCTTGCTTGCCTCC
ACCATGATATTTGAATAAGAGATGGCCAGAGGATAACACTTGTCTCTTAAAACTAAGCT
AAAAAGAACCTAGAACCTTCAATTGAGCAGTTGTGAAAATTGCTAATGGTGCCAAGGCCA
AGCAAAGAGTTTCAGAAAATGACTGAGAAGGAGCGATAACCCCGAGAATGCAAAATCAGG
GGCATCATTATCCGGTGCTTGAACAAGGAGCTCCGCTCTACAACCTGGTTTTTTTAGGACT
TGTGAGGAACACAGCAACGGAAATCCATCCACAAAGGATGCAGTGCCCCAACTTGTACTG
CGCCTGAATAGTCATGTGATAATTTACTGAAGAAATCTAGTGACTTTAAATTTTTTTCA
TAAAAGTTTACATTGTATTGTAGGTTAACATTAAATGTTTTATAGCAAAAACTTC

Gene 248. >ENST00000274811 cDNA sequence

ATCAAATGTGGGGTTTTGTTACATTCCGCTGCCCGCGGACAGTTCTTAAAGGGCCAGCC
GCCGGCTGCCGCGCAGACCCAGCTGCGTCTCGCGCCGCTCCCGCTCCCTGAGGGCCTGG
GCCGAGAGAGACTGATCGCGCTGGGCCTCGCGAGGCAGACGCCGTGGGGCGGACAACAA
AGAGAGAGGGCCCCGGAAGGAGCCGGGCTGCCCCCGGACCCGGGGGTGGGGAGGGGAGCAC
ATTGTTCCGCAGGGCGGGAGCTCTTAAAGGATCCAGACAGGCACCCCCCTCCCCCGC
CCCCTGCCAGTTTGGCCGTCTAGATCGGGAACAAAGGAGTCAACGTGTGGCCGGGCGG
CCAAAGGGTTGTGAGTCCCGGCCAGCCCCCTCACCCCCCTGCCCCCGATGCGACCAT
GGGCTCTGGCAGTGACTAGGTGGCCACCCTCCGCCCCGTGGGCCAGCGGCGATTCTCTG
CGGGACCTGGCAGCACCCCGGGCCAGCTCTGGGGAAGCCCTGGCCTCGAGGGCCCCCTGG
CCAGCCCGCTGCCCGGGATGAGCGCTTACCCTCCAGCAGCCGCCGTCCCGACCTCCAC
ACCTCCCCGTAGAGGAGCGCCGAGCCTCGGCTCCTGCCGGCGGGAGCCCCGAATGCTGC
ACCCAGCCACCCAGCAGAGCCCGTTTATGTTGATCTCCACGAGCAGGTGCACCAGGGAC
CTGTCCCTCTGTCTACACGGTCACCACAGTGACGACCCAAGGCTTCCCCTTGCCTACAG
GCCAGCACATCCCTGGCTGCAGTGCCAGCAGCTCCAGCATGCTCCGTGATGTTCAAGT
GGCAGCATTACCCCCCTCTGCTGCCTCCCGCCCCGCTTATCCAGGCGTGCACCATGCAGC
AGCTGCCTGTGCCCTATCAGGCCTACCCCCACCTCATCTCCAGTGACCACTACATCCTGC
ACCCCCACCCACCGCCCCACCCCCCAGCCACCCACATGGCGCCCCTGGGGCAGTTTG
TGTCTCTGCAGACCCAGCACCCCTCGGATGCCCCCTCCAGCGGCTCGACAACGACGTGGACC
TGCGTGGGGACCAGCCCTCCCTGGGCAGCTTACCTACTCCACCTCTGCGCCTGGCCCAG
CCCTTTCCCGCTCGGTGCCCTTGCACTACCTGCCCCACGATCCGCTGCACCAGGAGCTGT
CCTTTGGTGTGCCATATTCTCACATGATGCCACGGAGACTGAGCACCCAGAGATACCGCC
TGCAGCAGCCACTGCCCCCGCCGCCCCACCCCCACCCACCCCTACTACCCAGCT
TCCTGCCCTACTTCTCTCGATGCTGCCAATGTACCAACAGCAATGGGGCCACCATCA
GCCTGGACCTGGACGTGGATGATGTGGAGATGGAGAACTATGAGGCCCTCCTGAACCTGG
CCGAGCGGCTGGGAGATGCCAAGCCCCGGGGTCTACCAAAGCAGACATAGAGCAGCTCC
CGTTCGTACCGCTTTAACCCGGACAGCCATCAGTCGGAGCAGACGCTGTGTGTGGTCTGCT
TCAGTGACTTCGAGGCGCGGCAGCTGCTCCGAGTCTCCCTGCAACCATGAGTTCCACA
CCAAGTGTGTTGACAAGTGGTTGAAGGCCAACCGGACGTGTCCCATCTGCCGGGCCGACG
CCTCCGAGGTGCCCAGGGAGGCTGAGTGAGGCCACGCAGCCGCTGCCCGGGAGAACCT
GCCTGAAGCTCTGGAACCTTGTGGGTGGGGCCAGGGAGGATGGGGAGGGAGTGGCCCAG
GCCTGCCCTTTCGCTCCTGCCTGCATTTCCAGAGCTGGTGCCAGGGTCCAGCCAGCGAGG
AGTCCCTGCAATAAGCCCCCTGCATTTGCCAAGCTCCAAAGACTCCCTCCCTAGTCTGCCT
GCCTGCCCGCCCCGCCACGGAGCTGCCTGAGTGTCCCTGATCGGGTCTCCCTCCTGTGCAC
CCTCAGGTCCCTCCTTTTCTGCTGGCACTGAGTGCCAGGGGTCCGCTCCCTCAGTGGGG
CCGGTGGAGATCCTTGGCCCCAGGATGGGCAGACAGAGCACCATCCTGGGTGAGAAGGTC
TCATGCTCTGAAATGGCGTGCCCTCTGCCCAGGTGGCACTGCCAGGTGCGTAGACAGACG
GTGTACAGAGCCATTTCTGAGCCCCAGGGCTGAATCCCCCTCCTTGACCCCGAACAGT
GAACTCAGGCAGCTGGCTCTGTGTTGGCTGCTGTGAGGGCTGAGTCTGGTTCCCTAGGGG
ACCCTCATCCAGGAACAACATTCCAGCCCCACCCTCAGGCTGGAGGGCGTCCCAGCCTA
ATCCCGAGCTGGGGCACACGTATCCTGAGGGGCTTGGGCCATACGGGGAGAGGGAGCCCT
GTGTTCCCGGTGGTTGTCCCTCCCAGGGATGCAGCCAGACCCGTGCCCAATCTCCTCTCC
CTCTGTTGTTTTGCATGAACGTGAGGAGCAGCAGTTTTTTGTTTCATTTCATTTGGCCCCAAA
TCACGTGTAGGATTTGGGGATGTGGATATTTAAGACAATTTCTTTTTTCTTTTGGTTTAA

FIGURE 1 (CONT'D)

TAGGGGCGGGTATAGGGACCAACTGGGACCGAGTGCCCAGGGGGCCGAGCACGGTCATGC
TGGCCGGCCTGCATGCATGCGTGTGCCGGGCTGGGCTGGGCGGCCGGCGGTCTGTTGGGCA
GGGTTGGGGGTCTGTGCTCAGCTGATAACTGCCATGCACTGTACTGCACACGTCCCTAGA
GCCTACCGGGACCCGACGCTTTTCAGGGCATTTCTCCCTCCAGCCAGGGCCCAACTCCCA
CCTGCCTGGGCGAATCTCCTCCAAGGAAGTCCCAGGAGGATGGGGACCAGGAAGGCTGTG
GACCCCCATCTCCAGGGGGGCTTCCCAGCCTGATCCCTGTCTCCAAGTTCTGGAGGAGG
CCGCTGTAGGGTCTGGCTGAGCTTCCCACCCACTTTCCCTGGTCCCAATCCTTTCTTGTC
CTATACCCAGCTGGGGTGTCTGCCCTGAACGAACTGCGTGTGGGGCCGGCACATCCTAGC
AGGCAGCCCCCTGGCGCCTGCTGCCCTCAGGGATGCTCCAACCACCCTCGTTCTCCTCGCAG
TGGCCCTGGCTCCCACCTCCCGCCCCAGCCTGCCGTGGGGCCCGTCAGCCTGGTCCCACC
CCCATGGAGAACCCAAAGTCTTACTGTATATAACTCCAGGTGACGTTTCTATATTTATAG
CAGTGTGAAAACCCACGTGTTTTACACAGAACACCCTCTCCAACCCCTCCCTTCCCGA
CCCCAACAAAACGTTTTCAAACCCCTTACAGTTCTTGGGGCAGGCGGAAACAGGCTCACA
GATTGTGTGTGCGCTGCAGCAGTGATTCCAACAAGCAGCTATTGGGGGGGAAACACAGCA
TTTAAAAAGATCATCATTAAAAACAAGATTTATACAACAATTACTTAGGATGTTTGTGA
TCTGCCGACCTTGCTATAGATGCCATGTTACCAATGATTTCTGTGGTGGGGGCTTGCCA
TTGTTTACTCTCTTATTTACCAACTTCTGGCCTAGGCATGACAGTGGGCACCTTCCCCCA
GCCCTGGCTGGGCCCAGCGCCTGTGTTCTGTGTTAGAAAGGTTTTATATATATATAAAAT
TACATATATATGTAGAAATATATGTAATTTTGGGGGCCCTGTTCTTGACATTTTACAG
TTACCTCATTTTTCCCATGTATGTATTTGAGAAAATGCTAATATATAGAGAAAAAATGG
TTCTTAAAGCTTAAATGTGTGGTTTTTTCCATTCCATGGGATTACATTGGTTTGTAGCA
TTTAACATAACTAGTATGTTGTATTATATATATGTGTATACTGATTGAAATTTTAAACAG
ATTTGTACTTTTTTTAAATGAAAGTTGCTAGTTCTGCTTGACCAAGTAGTGCAATCATT
ATTTTTTTTAAATATTGTTGCTGATTTTCAAGGGATATTCACTAATAAATGTATGATGTAT
ACC

Gene 249. >ENST00000057533 cDNA sequence

ATGAGCGACAGTAAATGTGACAGTCAGTTTTATAGTGTGCAAGTGGCAGACTCAACCTTC
ACTGTCCTAAAACGTTACCAGCAGCTGAAACCAATTGGCTCTGGGGCCCAAGGGATTGTT
TGTGCTGCATTTGATACAGTTCTTGGGATAAATGTTGCAGTCAAGAACTAAGCCGTCCT
TTTCAGAACCAAACTCATGCAAAGAGAGCTTATCGTGAACCTTGTCTCTTAAATGTGTC
AATCATAAAAATATAATTAGTTTTGTTAAATGTGTTTACACCACAAAAAACTCTAGAAGAA
TTTCAAGATGTGTATTTGGTTATGGAATTAATGGATGCTAACTTATGTGAGGTTATTAC
ATGGAGCTGGATCATGAAAGAATGTCCTACCTTCTTTACCAGATGCTTTGTGGTATTAAA
CATCTGCATTTCAGCTGGTATAATTATAGAGATTTGAAGCCTAGCAACATTGTTGTGAAA
TCAGACTGCACCCTGAAGATCCTTGACTTTGGCCTGGCCCGGACAGCGTGCACTAACTTC
ATGATGACCCCTTACGTGGTGACACGGTACTACCGGGCGCCCGAAGTCATCCTGGGTATG
GGCTACAAAGAGAACGTGGACATCTGGTCTGTGCGGTGCATCATGGCAGAAATGGTCCTC
CATAAAGTCCTGTTCCCGGGAAGAGACTATATTGATCAGTGGAATAAAGTTATTGAGCAG
CTGGGAACACCATCAGCAGAGTTTATGAAGAACTTCAGCCAACCTGTGAGGAATTATGTC
GAAAACAGACCAAAGTATCCTGGAATCAAATTTGAAGAACTCTTTCAGATTGGATATTC
CCATCAGAATCTGAGCGAGACAAAATAAAAAAAGTCAAGCCAGAGATCTGTTATCAAAA
ATGTTAGTGATTGATCCTGACAAGCGGATCTCTGTAGACGAAGCTCTGCGTCACCCATAC
ATCACTGTTTGGTATGACCCCGCCGAAGCAGAAGCCCCACCACCTCAAATTTATGATGCC
CAGTTGGAAGAAAGAGAACATGCAATTGAAGAATGGAAAGAGCTAATTTACAAAGAAGTC
ATGGATTGGGAAGAAAGAAGCAAGAATGGTGTGTTAAAGATCAGCCTTCAGATGCAGCA
GTAAGTAGCAACGCCACTCCTTCTCAGTCTTCATCGATCAATGACATTTTATCCATGTCC
ACTGAGCAGACGCTGGCCTCAGACACAGACAGCAGTCTTGATGCCTCGACGGGACCCCTT
GAAGGCTGTGATGA

Gene 250. >ENST00000316123 cDNA sequence

ATGAGCGACAGTAAATGTGACAGTCAGTTTTATAGTGTGCAAGTGGCAGACTCAACCTTC
ACTGTCCTAAAACGTTACCAGCAGCTGAAACCAATTGGCTCTGGGGCCCAAGGGATTGTT
TGTGCTGCATTTGATACAGTTCTTGGGATAAATGTTGCAGTCAAGAACTAAGCCGTCCT
TTTCAGAACCAAACTCATGCAAAGAGAGCTTATCGTGAACCTTGTCTCTTAAATGTGTC
AATCATAAAAATATAATTAGTTTTGTTAAATGTGTTTACACCACAAAAAACTCTAGAAGAA

FIGURE 1 (CONT'D)

TTTCAAGATGTGTATTTGGTTATGGAATTAATGGATGCTAACTTATGTGAGGTTATTAC
ATGGAGCTGGATCATGAAAGAATGTCCTACCTTCTTTACCAGATGCTTTGTGGTATTAAA
CATCTGCATTAGCTGGTATAATTCATAGAGATTTGAAGCCTAGCAACATTGTTGTGAAA
TCAGACTGCACCCTGAAGATCCTTGACTTTGGCCTGGCCCGGACAGCGTGCACTAACTTC
ATGATGACCCCTTACGTGGTGACACGGTACTACCGGGCGCCGAAGTCATCCTGGGTATG
GGCTACAAAGAGAACGTTGATATCTGGTCAGTGGGTTGCATCATGGGAGAGCTGGTGAAA
GGTTGTGTGATATTCCAAGGCACTGACCATATTGATCAGTGAATAAAGTTATTGAGCAG
CTGGGAACACCATCAGCAGAGTTTCATGAAGAACTTCAGCCAACTGTGAGGAATTATGTC
GAAAACAGACCAGAGTATCCTGGAATCAAATTTGAAGAACTCTTTCAGATTGGATATTTC
CCATCAGAATCTGAGCGAGACAAAATAAAAAAAGTCAAGCCAGAGATCTGTTATCAAAA
ATGTTAGTGATTGATCCTGACAAGCGGATCTCTGTAGACGAAGCTCTGCGTCACCCATAC
ATCACTGTTTTGGTATGACCCCGCCGAAGCAGAAGCCCCACCACCTCAAATTTATGATGCC
CAGTTGGAAGAAAGAGAACATGCAATTGAAGAATGGAAAGAGCTAATTTACAAAGAAGTC
ATGGATTGGGAAGAAAGAAGCAAGAATGGTGTGTAAAAGATCAGCCTTCAGATGCAGCA
GTAAGTAGCAACGCCACTCCTTCTCAGTCTTCATCGATCAATGACATTTTCATCCATGTCC
ACTGAGCAGACGCTGGCCTCAGACACAGACAGCAGTCTTGATGCCTCGACGGGACCCCTT
GAAGGCTGTCGATGA

Gene 251. >ENST00000253778 cDNA sequence

GGAATCTTTGCCTACATGAACTACAGAGTCCCCCGGACGAGGAAGGAGATCTTCGAAACC
CTCATCAAGGGCCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATC
GATGGGAATAATCAGGAAGTCAAAGAAAGACACATTTCAGCTGGTCAAGAAAAGGGGGAAA
GTCAAGGCTCTCGATGAAGAAGTTTACAAACAAGACAGCATGGACTTAAAAGTGGAGTTT
GAGACACACTTTCGGCATTGCCCCACACGCGCTGGGCCACCCACGGGGTCCCCAGTGCTGTC
AACAGCCACCCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGTTCATCCACAATGGGATC
ATCACAATTTACAAAGATCTGAGGAAATTTCTGGAAAGCAAAGGCTACGAGTTTGAGTCA
GAAACAGATACAGAGACCATCGCCAAGCTGATTAAATATGTGTTTCGACAACAGAGAACT
GAGGACATTACGTTTTTCAACGTTGGTTCGAGAGAGTCATTTCAGCAGTTGGAAGGTGCATTTC
GCGCTGGTTTTTCAAGAGTGTCCACTACCCAGGAGAAGCCGTTGCCACACGGAGAGGCAGC
CCCCTGCTCATCGGAGTCCGGAGCAAATACAAGCTCTCCACAGAACAGATCCCTATCTTA
TACAGGACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAGACACGGATGAAGAGGCTG
GACAGCTCCGCCTGCCTGCATGCTGTGGGCGACAAGGCCGTGGAATTTCTTCTTTGCTTCT
GATGCAAGCGCTATCATAGAGCACACCAACCGGGTCATCTTCTGGAGGACGATGACATC
GCCGAGTGGCTGATGGGAACTCTCCATTACCGGGTCAAGCGCTCGGCCAGTGATGAC
CCATCTCGAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATCATGAAAGGCAGGTGT
AATTCAGTGCGTTTATGCAGAAGGAGATCTTCGAACAGCCAGAATCAGTTTTCAATACT
ATGAGAGGTGGGGTGAATTTTGAACCAACACAGTGCTCCTGGGTGGCTTGAAGGACCAC
TTGAAGGAGATTTCAGCATGCCGACGGCTCATCGTGATTGGCTGTGGAACCAGCTACCAC
GCTGCCGTGGCTACGCGGCAAGTTTTTGGAGGAACTGACTGAGCTTCTGTGATGGTTGAA
CTTGCTAGTGATTTTCTGGACAGGAACACACCTGTGTTTCAAGGATGACGTTTGCTTTTTTC
ATCAGCCAGTCAGGCGAGACCGCGGACACCCTCCTGGCGCTGCGCTACTGTAAGGACCGC
GGCGCTCTCACCGTGGGCGTCACCAACACCGTGGGCGAGCTCCATCTCTCGCGAGACCGAC
TGCGGCGTCCACATCAACGCAGGGCCGGAGATCGGCGTGGCCAGCACCAAGGCTTATACC
AGTCAGTTTCATCTCTCTGGTGATGTTTGGTTTGTATGATGTCTGAAGACCGAATTTCACTA
CAAAACAGGAGGCAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTGATCAAGGAA
GTGCTGTCTCTGGAGGAGAAGATCCACGACTTGGCCCTGGAGCTCTACACGCAGAGATCG
CTGCTGGTGATGGGGCGGGGCTACAACTATGCCACCTGCCTGGAAGGAGCCCTGAAAATT
AAAGAGATAACCTACATGCACTCAGAAGGCATCCTGGCTGGGGAGCTGAAGCACGGGCCC
CTGGCACTGATTGACAAGCAGATGCCCCGTATCATGGTCATTATGAAGGATCCTTGCTTC
GCCAAATGCCAGAACGCCCTGCAGCAAGTCACGGCCCGCCAGGGTCGCCCCATTATACTG
TGCTCCAAGGACGATACTGAAAGTTCCAAGTTTTCGTATAAGACAATTGAGCTGCCCCAC
ACTGTGGAAGTGCCTCCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCTTCCAC
CTGGCTGTTCTCCGAGGATATGACGTTGACTTCCCCAGAAATCTGGCCAAGTCTGTAACT
GTGGAATGAGGCTGAGACCGTGACAAGACCATCACACCTTTTCATCTGATTCCAGACCTG
TCCCAACAGCAGGGATGCTACATGGGAAGAGAAGTGGACATCCACATGTTCTGCGTGCT

FIGURE 1 (CONT'D)

CCTGTAGAGCTTGACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGCTTACAGCAGAT
 ACTGTTTCTCTGTGTCCTGAAGTCGCCAGAGGAGAAGGGAATCATTGTTTACACATGGGG
 ATCAGAGCAGACTTCTCCACTACTGTGCAATAGAGATACAGCTCTCTTCAGAGTAACTGT
 GAACCTTTTATAACCAACACTAGAGTTAGTTTTAAAAGACAAGATATTTATAATGACGAC
 TGTATAGCTTTTAAAGTTATTTTTCTAGTATGTGGCTTTCTGTAGCCGTGGTAACGGCCAA
 ACTGTTTCATCCTAGCTACCCATGCTCTGTGTCCAGGCTTGCTCCTGGCAGGTGGCATTCA
 TCTCAGATGTGAGCACAAGGCATTGGCCCTCTGGACTCCTTTCTCCTTTTCTTTCTCTC
 TAGGCTGCTCCTGAATCCTGTTCTCTGACATCCGTGGAGCCCCCTCCTGCATCCACCTATG
 CCTCCTATAAGTCCAGTTGAAATCTCAGCCTCCTTCAACATTTTCTTCTCGTGTGTGGCC
 CACATCCCTCCACTTCTCCAACCTTCTGTTTAAATCTGATCACGGCTCTTTTTAAGCCCTGG
 CAGCATTTTGGTCCCTGCTCCTTGCCCATAGTAAACAGCTTGAAATATCCCATGCAAGA
 GAGTAGTTTCAAGTGGGCAACTCTGCTCTCTATTTAAAAGCGTGACAATCAAAAGTACT
 ATGCAATTTTAGGACAATAAAGAACATACAGTTTTTTTTGTGTG

Gene 252. >ENST00000298507 cDNA sequence

GCTGGCCCCGGGAGGGGGCGCGGGGCACGGTTGATGCCGGCCCAGGATGGATCAGACCTGT
 GAACTACCCAGAAGAAATTGTCTGCTGCCCTTTTCCAATCCAGTGAATTTAGATGCCCT
 GAAGACAAGGACAGCCCTTTTCGGTAATGGTCAATCCAATTTTCTGAGCCACTTAATGGG
 TGTACTATGCAGTTATCGACTGTGAGTGAACATCCCAAATGCTTATGGACAAGATTCT
 CCATCTTGTACATTCCACTGCGGAGACTACAGGATTTGGCCTCCATGATCAATGTAGAG
 TATTTAAATGGGTCTGCTGATGGATCAGAATCCTTTCAAGACCCTGAAAAAGTGATTCA
 AGAGCTCAGACGCCAATTGTTTGCACCTCCTTGAGTCTGGTGGTCTACAGCACTTGCT
 ATGAAACAGGAACCTCTTGTAATAACTCCCTGAACTCCAGGTAAAAGTAACAAAGACT
 ATCAAGAATGGCTTTCTGCACCTTTGAGAATTTTACTTGTGTGGACGATGCAGATGTAGAT
 TCTGAAATGGACCCAGAACAGCCAGTCACAGAGGATGAGAGTATAGAGGAGATCTTTGAG
 GAAACTCAGACCAATGCCACCTGCAATTATGAGACTAAATCAGAGAATGGTGTAAAAGTG
 GCCATGGGAAGTGAACAAGACAGCACACCAGAGAGTAGACACGGTGCAGTCAAATCGCCA
 TTCTTGCCATTAGCTCCTCAGACTGAAACACAGAAAAATAAGCAAAGAAATGAAGTGGAC
 GGCAGCAATGAAAAAGCAGCCCTTCTCCAGCCCCCTTTTCACTAGGAGACACAAACATT
 ACAATAGAAGAGCAATTAAACTCAATAAATTTATCTTTTCAGGATGATCCAGATTCCAGT
 ACCAGTACATTAGGAAACATGCTAGAATTACCTGGAACTTCATCATCATCTACTTCACAG
 GAATTGCCATTTTGTCAACCTAAGAAAAAGTCTACGCCACTGAAGTATGAAGTTGGAGAT
 CTCATCTGGGCAAAATTCAAGAGACGCCCATGGTGGCCCTGCAGGATTTGTTCTGATCCG
 TTGATTAAACACACATTCAAAAATGAAAGTTTCCAACCGGAGGCCCTATCGGCAGTACTAC
 GTGGAGGCTTTTGGAGATCCTTCTGAGAGAGCCTGGGTGGCTGGAAAAGCAATCGTCATG
 TTTGAAGGCAGACATCAATTGGAAGAGCTACCTGTCTTAGGAGAAGAGGGAAACAGAAA
 GAAAAAGGATATAGGCATAAGGTTCTCAGAAAATTTTGAAGTAAATGGGAAGCCAGTGTT
 GGACTTGCAGAACAGTATGATGTTCCCAAGGGTCAAAGAACCGAAAATGTATTCTGGT
 TCAATCAAGTTGGACAGTGAAGAAGATATGCCATTTGAAGACTGCACAAATGATCCTGAG
 TCAGAACATGACCTGTTGCTTAATGGCTGTTTGAAATCACTGGCTTTTGATTCTGAACAT
 TCTGCAGATGAGAAGGAAAAGCCTTGCGCTAAATCTCGAGCCAGAAAGAGCTCTGATAAT
 CCAAAAAGGACTAGTGTGAAAAAGGGCCACATACAATTTGAAGCACATAAAGATGAACGG
 AGGGGAAAGATTCCAGAGAACCTTGGCCTAAACTTTATCTCTGGGGATATATCTGATACG
 CAGGCCTCTAATGAACTTTCCAGGATAGCAAATAGCCTCACAGGGTCCAACACTGCCCA
 GGAAGTTTTCTGTTTTCTTCTGTGGAAAAACA CTGCAAAGAAAGAATTTGAGACTTCA
 AATGGTGACTCTTTATTGGGCTTGCTGAGGGTGCTTTGATCTCAAAGTGTTCTCGAGAG
 AAGAATAAACCCCAACGAAGCCTGGTGTGTGGTTCAAAGTGAAGCTCTGCTATATTGGA
 GCAGGTGATGAGGAAAAGCGAAGTGATTCCATTAGTATCTGTACCACTTCTGATGATGGA
 AGCAGTGACCTGGATCCCATAGAACACAGCTCAGAGTCTGATAACAGTGTCTTGAAATT
 CCAGATGCTTTGATAGAACAGAGAACATGTTATCTATGCAGAAAAATGAAAAGATAAAG
 TATTCTAGGTTTGCTGCCACAAACACTAGGGTAAAAGCAAAACAGAAAGCCTCTCATTAGT
 AACTCACATACAGACCACTTAATGGGTGTACTAAGAGTGCAGAGCCTGGAACCGAGACG
 TCTCAGGTTAATCTCTCTGATCTGAAGGCATCTACTCTTGTTCAAAACCCAGTCAGAT
 TTTACAAATGATGCTCTCTCTCAAAATTCACCTGTCAAGCATATCCAGTGAGAAC
 TCGTTAATAAAGGTGGGGCAGCAAATCAAGCTCTATTACATTGAAAAGCAAACAGCCC

FIGURE 1 (CONT'D)

AAGTTCCGAAGTATAAAGTGCAAAACACAAAGAAAATCCAGTTATGGCAGAACCCCCAGTT
 ATAAATGAGGAGTGCAAGTTTGAATGCTGCTCTTCTGATACCAAAGGCTCTCCTTTGGCC
 AGCATTCTCTAAAAGTGGGAAAGTGGATGGTCTAAACTACTGAACAATATGCATGAGAAA
 ACCAGGGATTCAAGTGACATAGAAACAGCAGTGGTGAAACATGTTTTATCCGAGTTGAAG
 GAACTCTCTTACAGATCCTTAGGTGAGGATGTGAGTACTCTGGAACATCAAAGCCATCA
 AAACCATTACTTTTCTCTTCTGCTTCTAGTCAGAATCACATACCTATTGAACCAGACTAC
 AAATTCAGTACATTGCTAATGATGTTGAAAGATATGCATGATAGTAAGACGAAGGAGCAG
 CGGTTGATGACTGCTCAAAACCTGGTCTCTTACCGGAGTCTGGTCTGTTGGGACTGTTCT
 ACTAATAGTCCTGTAGGAGTCTCTAAGGTTTTGGTTTCAGGAGGCTCCACACACAATTCA
 GAGAAAAGGGAGATGGCACTCAGAACTCCGCCAATCCTAGCCCTAGTGGGGTGACTCT
 GCATTATCTGGCGAGTTGTCTGCTTCCCTACCTGGCTTACTGTCCGACAAGAGAGACCTC
 CCTGCTTCTGGTAAAAGTCGTTGAGTGTGTTACTAGGCGCAACTGTGGACGATCAAAG
 CCTTCATCCAAATTGCGAGATGCTTTTTTCAGCCCAAATGGTAAAGAACACAGTGAACCGT
 AAAGCCTTAAAGACCGAGCGCAAAAGAAAAGTGAATCAGCTTCCAAGTGTGACTCTTGAT
 GCTGTACTGCAGGGAGACCGAGAACGTGGAGGTTTATTGAGAGGTGGGGCAGAAGATCCT
 AGTAAAGAGGATCCCCCTCAGATAATGGGCCACTTAACAAGTGAAGATGGTGACCATTTTT
 TCTGATGTGCATTTTCGATAGCAAGGTTAAGCAATCTGATCCTGGTAAAATTTCTGAAAAA
 GGACTCTCTTTTGAAGAACGGAAGGGCCAGAGCTGGACTCTGTAATGAACAGTGAGAAT
 GATGAACTCAATGGTGTAAATCAAGTGGTGCCTAAAAAGCGGTGGCAGCGTTTAAACCAA
 AGGCGCACTAAACCTCGTAAGCGCATGAACAGATTTAAAGAGAAAGAAAAGTCTGAGTGT
 GCCTTTAGGGTCTTACTTCTAGTGACCTGTGCAGGAGGGGCGGGATGAGTTTCCAGAG
 CATAGAACTCCTTCAGCAAGCATACTTGAGGAACCACTGACAGAGCAAAATCATGCTGAC
 TGCTTAGATTGAGTGGGCCACGGTTAAATGTTTGTGATAAATCCAGTGCCAGCATTGGT
 GACATGGAAAAGGAGCCAGGAATTTCCAGTTTGCACCCAGGCTGAGCTCCCTGAACCA
 GCTGTGCGGTGAGAGAAGAAACGCCTTAGGAAGCCAAGCAAGTGGCTTTTGAATATACA
 GAAGAATATGATCAGATATTTGCTCCTAAGAAAAACAAAAGAAGGTACAGGAGCAGGTG
 CACAAGGTAAAGTTCCCGCTGTGAAGAGGAAAGCCTTCTAGCCCGAGGTGATCTAGTGCT
 CAGAACAAGCAGGTGGACGAGAATTCTTTGATTTCAACCAAAGAAGAGCCTCCAGTTCTT
 GAAAGGGAGGCTCCGTTTTTGGAGGGCCCCCTTGGCTCAGTCAGAACTTGGAGGTGGACAT
 GCTGAGTTGCCGAGCTGACCTTGTCTGTGCCTGTGGCTCCGGAAGTCTCTCCACGGCCT
 GCCCTTGAGTCTGAGGAATTGCTAGTTAAAACGCCAGGAAATTATGAAAGTAAACGTCAA
 AGAAAACCAACTAAGAACTTCTTGAATCCAATGATTTAGACCCTGGATTTATGCCCAAG
 AAGGGGGACCTTGGCCTTTCTAAAAAGTGCTATGAAGCTGGTCACCTGGAGAATGGCATA
 ACTGAATCTTGTGCCACATCTTATTCAAAAGATTTTTGGTGGAGGCACTACCAAGATATTT
 GACAAGCCAAGGAAGCGAAAACGACAGAGGCATGCTGCAGCCAAGATGCAGTGTAAAAAA
 GTGAAAAATGATGACTCGTCAAAAGAGATTCCAGGCTCAGAGGGAGAACTAATGCCTCAC
 AGGACGGCCACAAGCCCCAAGGAGACTGTTGAGGAAGGTGTAGAACACGATCCCGGGATG
 CCTGCCTCTAAAAAATGCAGGGTGAACGCGGTGGAGGAGCTGCACTCAAGGAGAATGTC
 TGTGAGAATTGTGAAAAATTGGGTGAGCTGCTGTTATGTGAGGCTCAGTGCTGTGGGGCT
 TTCCACCTGGAGTGCTTGGATTGACTGAGATGCCAAGAGGAAAATTTATCTGCAATGAA
 TGTGCGACAGGAATCCATACCTGTTTTGTATGTAAGCAGAGTGGGGAAGATGTTAAAGG
 TGCCTTCTACCCTTGTGTGGAAAGTTTTACCATGAAGAGTGTGTCCAGAAGTACCCACCC
 ACTGTTATGCAGAACAAAGGGCTTCCGGTGCTCCCTCCACATCTGTATAACCTGTCATGCT
 GCTAATCCAGCCAATGTTTCTGCATCTAAAGGTGGTTGATGCGCTGTGTCCGCTGTCTCT
 GTGGCATAACACGCCAATGACTTTTGCCTGGCTGCTGGGTCAAAGATCCTTGCACTAAT
 AGTATCATCTGCCCTAATCACTTTACCCCTAGGCGGGGCTGCCGAAATCATGAGCATGTT
 AATGTTAGCTGGTGCTTTGTGTGCTCAGAAGGAGGCAGCCTTCTGTGCTGTGATTCTTGC
 CCTGCTGCTTTTTCATCGTGAATGCCTGAACATTGATATCCCTGAAGGAACTGGTATTGC
 AATGACTGTAAAGCAGGCAAAAAGCCACACTACAGGGAGATTGTCTGGGTAAAAGTTGGA
 CGATACAGGTGGTGGCCAGCTGAGATCTGCCATCCTCGAGCTGTTTCTTCCAACATTGAT
 AAGATGAGACATGATGTGGGAGAGTTCCAGTCCTCTTTTTTGGATCTAATGACTATTTG
 TGGACTCACCAGGCCCGAGTCTTCCCTTACATGGAGGGTGACGTGAGCAGCAAGGATAAG
 ATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGGTTT
 GAGGAATTAAAGGCCCAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGACAAG

FIGURE 1 (CONT'D)

AAGCCACCACCTTATAAACATATAAAGGTAAACCGTCCTATTGGCAGGGTACAGATCTTC
 ACTGCAGACTTATCTGAAATACCCCGTTGCAACTGTAAAGCTACTGATGAGAACCCCTGT
 GGGATAGACTCTGAATGCATCAACCGCATGCTGCTCTATGAGTGCCACCCACAGTGTGT
 CCTGCCGGAGGGCGCTGTCAAAACAGTGCTTTTTCCAAGCGCCAATATCCAGAGGTTGAA
 ATTTTCCGCACATTACAGCGGGGTTGGGGTCTACGGACAAAAACAGATATTAAAAAGGGT
 GAATTTGTGAATGAGTATGTGGGTGAGCTTATAGATGAAGAAGAATGCAGAGCTCGAATT
 CGCTATGCTCAAGAACATGATATCACTAATTTCTATATGCTCACCTAGACAAAGACCGA
 ATCATTGATGCTGGTCCCAAAGGAACTATGCTCGGTTTATGAATCATTGCTGCCAGCCC
 AACTGTGAAACACAGAAGTGGTCTGTGAATGGAGATACCCGTGTAGGCCTTTTTGCACTA
 AGTGACATTAAAGCAGGCACTGAACCTTACCTTCAACTACAACCTAGAATGTCTTGGGAAT
 GGAAAGACTGTTTGCAATGTGGAGCCCCGAACTGCAGTGGCTTCTTGGGTGTAAGGCCA
 AAGAATCAACCCATTGCCACGGAAGAAAAGTCAAAGAAATTCAAGAAGAAGCAACAGGGA
 AAGCGCAGGACCCAGGGTGAAATCACAAAGGAGCGAGAAGATGAGTGTTTTAGTTGTGGG
 GATGCTGGCCAGCTCGTCTCCTGCAAGAAACCAGGCTGCCAAAAGTTTACCACGCAGAC
 TGTCTCAATCTGACCAAGCGACCAGCAGGGAAATGGGAATGTCCGTGGCATCAGTGTGAC
 ATCTGCGGGAAGGAAGCAGCCTCCTTCTGTGAGATGTGCCCCAGCTCCTTTTGTAAAGCAG
 CATCGAGAAGGGATGCTTTTTCATTTCCAACTGGATGGGCGTCTGTCTTGTACTGAGCAT
 GACCCCTGTGGGCCCAATCCTCTGGAACCTGGGGAGATCCGTGAGTATGTGCCTCCCCA
 GTACCGCTGCCTCCAGGGCCAAGCACTCACCTGGCAGAGCAATCAACAGGAATGGCTGCT
 CAGGCACCCAAAATGTGAGATAAACCTCCTGCTGACACCAACCAGATGCTGTGCTCTCC
 AAAAAAGCTCTGGCAGGGACTTGTGAGAGGCCACTGCTACCTGAAAGACCTCTTGAGAGA
 ACTGACTCCAGGCCCCAGCCTTTAGATAAGGTGAGAGACCTCGCTGGGTGAGGGACCAA
 TCCCAATCCTTGGTTTTCCAGCCAGAGGCCACTGGACAGGCCACCAGCAGTGGCAGGACCA
 AGACCCAGCTAAGCGACAAACCTCTCCAGTGACCAGCCCAAGCTCCTCACCTCAGTC
 AGGTCCCAACCACTGGAAGACCTCTGGGGACGGCTGACCCAAGGCTGGATAAATCCATA
 GGTGCTGCCAGCCCCAAGGCCCCAGTCACTGGAGAAAACCTCAGTTCCCACTGGCCTGAGA
 CTTCCGCCGCCAGACAGACTGCTCATTACTAGCAGTCCCAAACCCAGACTTCAGACAGG
 CCTACTGACAAACCCCATGCCTCTTTGTCCAGAGACTCCACCTCCTGAGAAAGTACTA
 TCAGCTGTGGTCCAGACCCCTTGTAGCTAAAGAAAAAGCACTGAGGCCTGTGGACCAGAAT
 ACTCAGTCAAAAAATAGAGCTGCTTTGGTGATGGATCTCATAGACCTAACTCCTCGCCAG
 AAGGAGCGGGCAGCTTCACCTCATCAGGTACACCCACAGGCTGATGAGAAGATGCCAGTG
 TTGGAGTCAAGTTCATGGCCTGCCAGCAAAGGTCTGGGGCATATGCCGAGAGCTGTTGAG
 AAAGGCTGTGTGTGAGATCCTCTTCAGACATCTGGGAAAGCAGCAGCCCCCTTCAGAGGAC
 CCCTGGCAAGCTGTTAAATCACTCACCCAGGCCAGACTTCTTTCTCAGCCTCCTGCCAAG
 GCCTTTTTTATATGAGCCAACAACCTCAGGCCTCAGGAAGAGCTTCTGCAGGGGGCTGAGCAG
 ACCCCAGGGCCTCTTAGCCAATCCCCGGGCCTGGTGAAGCAGGCGAAGCAGATGGTCCGA
 GGCCAGCAACTACCTGCACTTGCCGCCAAGAGTGGGCAATCTTTTAGGTCTCTCGGGAAG
 GCCCCAGCCTCCCTCCCCACTGAAGAAAAGAAGTTGGTAACCAAGAGCAAAGTCCCTGG
 GCCCTGGGAAAAGCCTCATCACGGGCAGGGCTCTGGCCCATAGTGGCTGGACAGACACTG
 GCACAGTCTTGCTGGTCTGCTGGGAGCACACAGACATTGGCACAGACTTGCTGGTCTCTT
 GGAAGAGGGCAAGACCCCAAACAGAGCAAAATACACTTCCAGCTCTTAACCAGGCTCCT
 TCCAGTCACAAGTGTGCAGAATCAGAACAGAAGTAGTACCAATCAATGTACATGAACAA
 ACAAGCTGCCCCCAGGGTACCATTTGGGGAGGGGAAATCTTTTCTTTCTTTCCCCCTTAA
 AAAAAACACATCTGCCCCGAACACTTTCCCACTGTTATTCTTTCTCATATCCCAACAC
 TCAGAACTCTTGTGACATTAGCCAGTGGGGGCTTATGGTTGTGTGAACCATGTATGAAAA
 TCCAGTGGGCCCCAACCAAGGAGACAGACAGACTTGGGTCTCTTTCCCCCAACTTTTCCA
 CATGGTCATCGTGAAATAAAAAGTCCACTCTGGAGTC

Gene 253. >ENST00000292408 cDNA sequence

GGGCCGCTCGCGGCCACGCCCGCTCGCGGGTACATTCTCGCTCCCGGCCGAGGAGCGC
 TCGGGCTGTCTGCGGACCCTGCCGCGTGCAGGGGTGCGGCCGGCTGGAGCTGGGAGTGA
 GGCGGCGGAGGAGCCAGGTGAGGAGGAGCCAGGTGAGCAGGACCCTGTGCTGGGCGCGGA
 GTCACGCAGGCTCGAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGT
 GAGAAGGAGATGCGGCTGCTGCTGGCCCTGTTGGGGGTCTGCTGAGTGTGCCTGGGCCT
 CCAGTCTTGTCCCTGGAGGCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCAGC

FIGURE 1 (CONT'D)

CTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCCCTTGGGCAGCCTGTGCGTCTGTGCTGT
GGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTGGCACCTGCTGGC
CGTGACGGGGCTGGAGGGGCGCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGC
CGCTACCTCTGCCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACA
GGTGACTCCTTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCCCTCG
AATAGGCACAGTTACCCCCAGCAAGCACCCCTACTGGACACACCCCCAGCGCATGGAGAAG
AAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCGGCTGTCCAGCTGCAGGCAAC
CCCACGCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATT
GGAGGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGCCTCG
GACCGCGGCACATACACCTGCCTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTAC
CTGCTAGATGTGCTGGAGCGGTCCCCGCACCGGCCCATCCTGCAGGCCGGGCTCCCCGCC
AACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTGTACAGCGATGCC
CAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGAC
GGTTTCCCCTATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTC
CTGTACCTGCGGAACGTGTGAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAAT
TCCATCGGCCTCTCCTACCAGTCTGCCTGGCTCACGGTGTGCGCAGAGGAGGACCCACA
TGGACCGCAGCAGCGCCCCGAGGCCAGGTATACGGACATCATCCTGTACGCGTCGGGCTCC
CTGGCCTTGGCTGTGCTCCTGCTGCTGGCCGGGCTGTATCGAGGGCAGGCGCTCCACGGC
CGGCACCCCCGCCCCGCCCACTGTGCAGAAGCTCTCCCGCTTCCTCTGGCCCCGACAG
TTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCGT
CTCTCCTCCAGCGGCCCGCCTTGCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGAC
CCACTATGGGAGTTCCCCCGGGACAGGCTGGTGTGTTGGGAAGCCCTAGGCGAGGGCTGC
TTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGCATGGACCTGCCCGGCCTGACCAAGCC
AGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTG
GTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTT
GGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTGATCGTGGAGTGCGCCGCAAGGGAAAC
CTGCGGGAGTTTCTGCGGGCCCCGGCGCCCCCAGGCCCGACCTCAGCCCCGACGGTCCT
CGGAGCAGTGAGGGGCCGCTCTCCTTCCCAGTCTCGGTCTCCTGCGCCTACCAGGTGGCC
CGAGGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTGGCTGCCCGCAAT
GTGCTGGTGAAGTGAAGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCCGCGCGTC
CACCACATTGACTACTATAAGAAAACAGCAACGGCCGCTGCCTGTGAAGTGGATGGCG
CCCGAGGCCTTGTGTTGACCGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATC
CTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAG
CTGTTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACACTGCCCCCAGAG
CTGTACGGGCTGATGCGTGAGTGTGGCACGCAGCGCCCTCCAGAGGCCTACCTTCAAG
CAGCTGGTGGAGGCGCTGGACAAGGTCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTC
CGCCTGACCTTCGGACCTATTCCCCCTCTGGTGGGGACGCCAGCAGCACCTGCTCCTCC
AGCGATTCTGTCTTCAGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCCTTCGGG
TCTGGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGGCTGGTGGCCTTG
GGCCTTGGGGCTCAGCCACAGCCTGACACAGTGTGACCTTGATAGCATGGGGCCCCCTG
GCCAGAGTTGTGTGCCGTGTCCAAGGGCCGTGCCCTTGCCCTTGGAGCTGCCGTGCCT
GTGTCTGATGGCCCAATGTGAGGGTTCTGCTCGGCTTCTTGGACCTTGGCGCTTAGTC
CCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGAGCTGCTATGCTAAACCTCCTGCCTCCC
AATACCAGCAGGAGGTTCTGGGCCTCTGAACCCCTTTCCCCACACCTCCCCCTGCTGCT
GCTGCCCCAGCGTCTTGACGGGAGCATTGGCCCCCTGAGCCCAGAGAAGCTGGAAGCCTGC
CGAAAACAGGAGCAAATGGCGTTTTATAAATTATTTTTTTTG

Gene 254. >ENST00000292410 cDNA sequence

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCTGCCGCGTGACAGGGGTGCGGGCCGGCTGGA
GCTGGGAGTGAGGCGGCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGA
AGTCCAGCTTGGGTCCCTGAGAGCTGTGAGAAGGAGATGCGGCTGCTGCTGGCCCTGTTG
GGGGTCTGCTGAGTGTGCTGGGCCTCCAGTCTTGTCCCTGGAGGCCTCTGAGGAAGTG
GAGCTTGAGCCCTGCCTGGCTCCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGTCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAG
GAGGGCAGTCGCCTGGCACCTGCTGGCCGTGTACGGGGCTGGAGGGGCCGCTAGAGATT

FIGURE 1 (CONT'D)

GCCAGCTTCCTACCTGAGGATGCTGGCCGCTACCTCTGCCTGGCACGAGGCTCCATGATC
 GTCCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCCAGCAACGATGATGAG
 GACCCCAAGTCCCATAGGGACCCCTCGAATAGGCACAGTTACCCCAAGCAAGCACCTAC
 TGGACACACCCCAAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTC
 AAGTTCCGCTGTCCAGCTGCAGGCAACCCCAAGCCACCATCCGCTGGCTTAAGGATGGA
 CAGGCCTTTTCATGGGGAGAACCGCATTGGAGGCATTGCGCTGCGCCATCAGCACTGGAGT
 CTCGTGATGGAGAGCGTGGTGCCCTCGGACCGCGGCACATACACCTGCCTGGTAGAGAAC
 GCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCGCACCGG
 CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAG
 CTGCTGTGCAAGGTGTACAGCGATGCCAGCCCCACATCCAGTGGCTGAAGCACATCGTC
 ATCAACGGCAGCAGCTTCGGAGCCGACGGTTTTCCCTATGTGCAAGTCTAAAGACTGCA
 GACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTGTAGCCGAGGACGCA
 GCGGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCTACCAGTCTGCCTGGCTC
 ACGGTGCTGCCAGGTACTGGGCGCATCCCCACCTCACATGTGACAGCCTGACTCCAGCA
 GGCAGAACCAAGTCTCCCACTTTGCAGTTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCA
 AGCTCATCCCTGGTACGAGGCGTGCCTCTCTCCTCCAGCGCCCCCGCTTGCTCGCCGGC
 CTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCCCGGGACAGGCTGGTG
 CTTGGGAAGCCCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGC
 ATGGACCCTGCCCGGCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAAC
 GCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGC
 CGACACAAGAACATCATCAACCTGCTTGGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTG
 ATCGTGGAGTGCGCCGCCAAGGGAAACCTGCGGGAGTTCTGCGGGCCCGGCGCCCCCA
 GGCCCCGACCTCAGCCCCGACGGTCTCGGAGCAGTGAGGGGCCGCTCTCCTTCCAGTC
 CTGGTCTCCTGCGCCTACCAGGTGGCCCCGAGGCATGCAGTATCTGGAGTCCCGGAAGTGT
 ATCCACCGGGACCTGGCTGCCCCGAATGTGCTGGTGACTGAGGACAATGTGATGAAGATT
 GCTGACTTTGGGCTGGCCCCGCGCGTCCACCACATTGACTACTATAAGAAAACAGCAAC
 GGCCGCCTGCCTGTGAAGTGGATGGCGCCCCGAGGCCTTGTTTTGACCGGGTGTACACACAC
 CAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGGGAGATCTTCACCCCTCGGGGGCTCC
 CCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCGCTGCTGCGGGAGGGACATCGGATG
 GACCGACCCCCACACTGCCCCCAGAGCTGTACGGGCTGATGCGTGAGTGCTGGCACGCA
 GCGCCCTCCCAGAGGCCTACCTTCAAGCAGCTGGTGGAGGCGCTGGACAAGGTCTGCTG
 GCCGTCTCTGAGGAGTACCTCGACCTCCGCCTGACCTTCGGACCCCTATTCCCCCTCTGGT
 GGGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCCCTGCCA
 TTGGGATCCAGCTCCTTCCCCCTTCGGGTCTGGGGTGCAGACATGAGCAAGGCTCAAGGCT
 GTGCAGGCACATAGGCTGGTGGCCTTGGGCCTTGGGGCTCAGCCACAGCCTGACACAGTG
 CTCGACCTTGATAGCATGGGGCCCCCTGGCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGT
 GCCCTTGCCCTTGGAGCTGCCGTGCCTGTGTCTGATGGCCCAAATGTGAGGGTTCTGCT
 CGGCTTCTTGGACCTTGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGA
 GCTGCTATGCTAAACCTCCTGCCTCCCAATACCAGCAGGAGGTTCTGGGCCTCTGAACCC
 CCTTTCCCCACACCTCCCCCTGCTGCTGCTGCCCCAGCGTCTTGACGGGAGCATTGGCCC
 CTGAGCCCAGAGAAGCTGGAAGCCTGCCGAAAAACAGGAGCAAATGGCGTTTTATAAATTA
 TTTTTTTG

Gene 255. >ENST00000298607 cDNA sequence

GAGCTAGCATCACCTGAGAAAGCAGGCTGGCCCCAGGACTCACGGGCGTCCATGCAGCT
 GATGGAGGGGAGCTGGACCGGACGACTGTGCTCTCTTAGCTCTAGCATCACCTGAGAAA
 GCAGCCTGTCTCCGGGACTCACGGGCATCCATGCGGCTGATGGAGGGAGCTGGGCCGGAC
 GACTGTGCTTCTCGTGCTTCATGTAGAACCCTTAGGTTTGCCCTGAAGTCTGTCTGCTC
 CATGTACTATTTAGTTGCTTTTCAGCATAGAGCTTGGTTTTCCCTTTTTTTAATTGTAAG
 AATGATGTGCTCTGGCATGTCACTGTGAAAGGGGACCAGATGATGGAGCCTGGACTGA
 AAGGGTGAATGGGGCCGCTCACCTCAGAACTCTCCCTGCTTTGCTTTGCTGGGAGCAGGG
 AGCAGGGCAGCCTGGGAGAGGCTGGAGTTCTCAAAGGGCAGAGAAGAATGGCCTTCAGG
 GGACCACAGGGAGGAACCATGCCATGATAGACTCAAAAAGCTAGATTATGCTAATAAAAA
 GGGGAAGACATCTGTGACACACAGGAAACAGTGTTCTGTCGCTTGGCATAGAAGGCGCAG
 TAAAGGAGGAAAACTCCGGAGACTCCCTGTGAATTCTTGGCTAAGAATGCACGTTATCTG

FIGURE 1 (CONT'D)

CAGTGATCTAAAAACACAAACGAGAACAGAAGTGAGTGGCCCTACCTGTGAGATGCACAG
TGCTGAGCGGCACCCAGCGCTGGCTGCAGGATGGGAGGCTGGCTGCCGTATGATTGTTCTG
TGGGAAGAAATTTTGTAGAAGTTATCAAGCTCCTTAAATGTTCTGTCTGTCTGCCTG
GACAGTTGCAATTCTGAGAAGCGATCCTTGAAATGATTCTGGGTATAGAAAAGGTACA
GCACAGTGGTGTCTTAGTATGGCTGTTTACAGTCGCAGAAAATGAGATGCTAAACTGCT
GCCCTAGGGGATTGGTTAAGCAAACCTGGTGCTTCCACTCCATGAGATAGGATGCAGCCAT
TTGAAATATTTATGAAGGTTTTGGACAGTCATTTGGAATAATGGTTTTGTTGGGGCTCTT
AACTTGCAAGCCAATAGAAAAGAAATCTGGCTAATATAATCCTATAAATTATTTCCCTAC
AGCCCATTTTTAAGGTTCCAGTAACCTTCAGAATCAAAGGAGACATCGGATGGCCAGGC
CTCAGTAGTGGAAGGCCAGGCAGTTCCAGATCCCTGCAGCCTGCCACTACCCGAGTC
TCTCCAGGTCAACAGCCAGGCTTGGGGGTGATGGAGGAGGACTCGGTAAGGGACAGTTCA
CTTGCCAAATGTTTAGGGAGCACCTGCTGTGGCCAGGCATTGCCCTAGAGGCAGGGAATA
TGATAGAAATTGCGGCAGTACAGGAAGGTAAGGTCCCTGTACCGCAGAGCTCACAGTCTC
ATGGGAAGGAGTTCTTACACAGGTGAGGTAAGTGTTAGGGAGAACTAAAGCCAGGTAAT
GAGAGAGGGCAGTGGGGCTGCAGAGGCTGGGGTGAGCCACAGACTACTGTAGACACGGTA
GCAACGTAGGTCTCTTAAGAAAGTGACACACAACGTAGGCCTAATCACAGCACTTTGGGA
GGCCAAGGTGGGAGGATCACTGAGACCAGCCTGGGCAACATAGAGAGACCCTGTCTCTGT
Gene 256. >ENST00000292599 cDNA sequence
CGGCCGCGCGGTAGCGCGGAAACAATGGGGCCGGGGCGGTGGGGAGAGGCCGAGGCTT
GAGGTAGGCAGCAAGCGCCGGCTGGGGGTGCGGCCGAGCGGGGAGGAGGAAAACCCGCC
GCCGCGCGCGAGCCCGCTCCGCTGCCCTCGGGGGCATGGCGCGGCCGTGAGGCGGAGAGG
GGTAGCCGCGGGGAGCGAAGCCCGCAGTGCCAGCCGGCCCCGAGAGGCCCGGCCCGGGC
CCGGCCCGTGCAGCCCGCGGCCCATGGTGCTGCCACCTGCCCATGGCGGAGTTTCGCGC
TGCCGCGGCACAGCGCGGTATGGAGCGCCTTCGCCGGCGCATCGAGCTGTGCCGGCGCC
ACCACAGCACCTGCGAGGCCCGCTACGAGGCCGTGTGCCCGAGCGCCTGGAGCTGGAGC
GCCAACACACCTTCGCCCTGCACCAGCGCTGCATCCAGGCCAAGGCCAAGCGCGCCGGGA
AGCACAGGCAGCCCGCCCGCCACCGCCCCGGCGCCCGCCCGCCCGCCCGCGCCTGG
ACGCCGCTGACGGCCCCGAGCACGGCCCGCCCGCCACGCATCTTCATGATACAGTTAAGA
GGAATCTTGACAGCGCCACTTCCCCCTCAGAATGGCGATCAACAGAATGGCTACGGGGACC
TCTTTCCTGGGCATAAGAAGACTCGCCGGGAGGCCCTCTGGGAGTTGCCATCTCTTCCA
ATGGACTGCCTCCAGCCTCCCCCTCGGTGAGTCTGACAAGCCTTCTGGAGCCGACGCCC
TGCACTCCAGTGGGAAGCACTCTCTGGGGCTAGACTCTCTCAACAAAAGCGTCTGGCTG
ACTCCAGCCTTCACTTGAATGGAGGCAGTAACCCAGTGAGTCATTTCTCTGAGCCTGA
ATAAAGAACTGAAGCAGGAGCCTGTGCAAGACCTGCCTTGATGATCACTGGGACTGTCTG
GCTCCATATCGCAAAGCAACCTCATGCCAGACCTCAACCTTAACGAGCAGGAGTGGAAGG
AGCTCATCGAGGAGCTGAACAGGTGGGTGCCCGATGAAGACATGAAGGACCTGTTTAATG
AGGACTTCGAGGAGAAGAAGGACCCAGAGTCTTCTGGCTCTGCCACACAAACCCCTTGG
CACAGGACATTAATATTAAGACGGAATTCTCTCCAGCAGCCTTTGAGCAAGAACAGTTAG
GCTCTCCACAAGTGAGGGCCGGGTCTGCAGGGCAGACCTTTCTGGGGCCTTCTCTGCC
CTGTGAGTACAGATTCCCCCAGCCTAGGGGGCTCCCAAACCTTATTCACACCTCTGGTC
AGCCCCGGGCGGACAATCCAGTCCAAACCTGATGCCGGCATCAGCCCAGGCCCAGAACG
CACAAAGAGCCCTTGCAAGGTGTGGTATTGCCAGTCAGGGCCAGGAGGGGCTCAGAGC
TGTCTCTGCCACCAGCTCCAGCAGATCGCTGCCAAGCAGAAGCGCGAGCAGATGCTCC
AGAACCACAGCAGGCCACCCCGGCACCAGCCCCGGGCCAGATGTCCACATGGCAGCAGA
CGGGGCCCTCCACAGTTCTTAGATGTCCCTTACCCCATGGAGAAGCCTGCCAGCCCTT
CCAGCTACAAGCAAGACTTCACTAACTCCAACTGCTCATGATGCCTAGTGTGAATAAGA
GTTCCCCTCGGCCCGGAGGCCCTACCTCCAGCCAGCCATGTGAACCTGCTGAGTCACC
AGCCACCGAGTAACTTGAATCAGAACTCCGCGAATAACAGGGGTCTGTGCTGGACTACG
GCAATACAAAACCCCTTTCTCATTACAAAGCGGACTGTGGGCAAGGCAGCCCGGGGTCTG
GCCAGAGCAAGCCAGCCCTGATGGCTTATCTTCCCCAGCAGCTGTCCCATATAAGTCACG
AGCAGAACTCCCTGTTTCTGATGAAGCCAAAGCCAGGAAATATGCCTTTCCGATCACTGG
TTCCACCTGGCCAGGAGCAGAACCTTCCAGTGTCCCTGTGCAAGCCAGGCTACCAGTG
TTGGGACCCAGCCGCTGCCGTGTCCGTGGCCAGCTCCCAACAGCTCCCCCTATCTCA
GCAGCCAGCAACAGGCCGCTGTAATGAAGCAGCATCAGTTGCTTTTGGACCAACAGAAAC

FIGURE 1 (CONT'D)

AAAGGGAGCAGCAGCAAAAGCATTTACAGCAACAGCAGTTCCTTCAGAGGCAACAGCACC
TTCTCGCGGAACAGGAGAAGCAACAGTTTCAGCGCCATCTGACCCGCCCACCACCCAGT
ACCAAGACCCGACACAAGGCAGCTTCCACAGCAGGTTGGACAGTTCACAGGGTCCTCTG
CTGCCGTGCCCGGCATGAACACCTTGGGTCCATCCAACCTCCAGCTGTCCTCGAGTGTTCC
CTCAGGCTGGGAATCTGATGCCAATGGGCCCTGGACATGCTTCAGTTTCCTCTCTCCCA
CAAACCTCAGGCCAACAGGACCGGGGTGTGGCTCAGTTCCTGGCTCCAAAACATGCCTC
AGAGCAGCCTCTATGGCATGGCTTCTGGCATAACCCAGATAGTTGCCAGCCCCCGCCAC
AGGCCACCAATGGACATGCCACATTCCACGGCAGACCAACGTGGGCCAGAACACCTCCG
TCTCAGCTGCCTATGGGCAGAACTCTCTGGGAAGCTCTGGCCTCTCCAGCAGCACAATA
AGGGGACCCTGAACCTGGTTTAAACAAAGCCACCGGTCCCAAGGGTGTACCAGCCATGG
GAGGCCAGAATTCTCCTGGCAGCATCAGGGAATGCCGAACCTCAGTGGCCAGACCCAG
GGAACAGCAACGTGAGTCCCTTCACTGCAGCCTCCAGTTTCCACATGCAGCAGCAGGCCC
ACCTGAAAATGTCTAGCCCGCAATTCTCCAGGCAGTGCCCAACAGGCCCATGGCTCCCA
TGAGCTCAGCAGCTGCCGTGGGGTCTTGTACCCCCAGTGAGTGACAGCAGAGGACCA
GCGCCCCTGCCCCAGCACCACCCCCAACAGCCCCCTCAGCAGGGCTTGCCTGGCCTGAGCC
CAGCAGGGCCTGAGCTGGGGGCCTTCAGCCAGAGCCCTGCCTCACAGATGGGCGGTGCGG
CGGGGCTGCACTGCACCCAGGCCTACCTGTGCGGACCGCGGGCCAGGAGCTGCCTTTTG
CCTATAGCGGGCAGCCAGGTGGCAGTGGGCTCTCTAGTGTGGCTGGACACACCGATCTGA
TCGACTCCCTGTGTAAGAACAGGACTTCAGAGGAGTGGATGAGTGATTTGGACGACCTGT
TAGGGTCTCAGTAATGGAAGGATTTGTAGTGTCTTTAGTGTTCATTTCATCCTATATTTTT
ATTCTCAGATTCAAAGAAAGAGCAACTACTTTGGACCAAAGCCCATGGCCTGGGGAGCT
GGGCAGGTAGAGCCCAAGCTCCAGGTGAGGCCTGGCCCTGGGCAGGGTCTGTGGCTGCGC
CCCTCAGGCCAGCAGTTGAGGTCCATCGGGCTGGCCCCAGCCCATCTGCTGGCATCAGTA
CCTGGTGTGGGACAGCAGGATAGGGTCTAAAGGTGGTTTTCTATCCAAACGACCAAAA
AACCAACAGTAACACCAGTGAAACCCCACTGTTCGGGCTTATAAAAATCTGTGCCATCA
TGGTGATTTTTATCCAAGACTGCTCCACTTACCCCAAGTGTGGGGACAAGTTTTCTGTTGAA
ACTTTAGATAGCAGAATTATTTGCAATTTGTAGCATAGAAAAGATTTTTTAAATTTTTTT
ACAAAAGGTTTTTAAACAGATTAGGGTAGGTGATGGTTTAAATCAATTAAGTGGCATTGG
AAACCTAGGGTTTTCTTTTGATTAAAGAGCCTTTTTTGTCTCTTTGTGAGCTTTCA
GGGGAGAAGGAGGCCACTGGAAAATTATTTCCCTAAGTGCAGGCTGTTGACTGCGTATGC
CAAAAAGGGACAGGAGGCATGGGATAGCAGGTCTGGTGACACAGCTAGGGTCTTCCTAGC
AGCTCCTCCTCCTCCCTCCCAAGGCCCCAGGAATCCCTTCTCTCCCATGTCTGGCAGCA
GGACCCAGGCTACATATGGAAGGTAGAGATGTGGGGGTCTGTATCCTGGAGTATTATG
TCTCCCCACCTTCTGCAGTTTTCTCTGAACATGTATGTTGCCCATGGTGGGAGCGTGGTC
ACTGTGCAGTTGTGCACAGATGTCTTTCTTTTACCGTTGGCCTTTCTGTCTGCCTCTCCT
TCCTCTCTGCAGCCCAATGGAAAACAATTATTTACTCCATTGGAGGGAAAGGAAGAGTC
TTAGAATTCCTAAGGGAACCTTAGCATAAAGGTTTTTGGGGAAGGAGGCCGTAGGCCGGCC
CGGAGGAAGCAATTCACCTTGGTTTGACAACTTCTGCCACTCCCATGTGAGTACTTGC
ACTTCTTAAAGAGATTGCTTTATAACACTAAGACATCCTTTCTAAAGATTCAAGTGGACT
TGACTAAGCTGAGGGTCCACGAAATAGAATATGACATGTGAGCTGTTTTTGGAAAACGAA
GATGGAGAGAGCACTTCCCCGTAACGAAAGCAAAGTGGTAAGCACAGGGTGAGACCTTTT
TACACAGAATGGTGGAGAGAAAAGAGAATGCTGAAAAGTGGCTCAGATGCAGAGTGTCT
GTGGAGAACTGCAGCCCCACTTCTGTTTCCCTGGAGTCTCCCAATGGATCATTAGGAG
TGTCCTATGTGAGAATTGAGCCAAGGAAAATACTCATGCAACCAGCCTGAGTCGCGGTGA
GGGGACGAGAGGTTGTACACACATTGGTAGTTATTTGCACCAGCAGTGCCTTTCTCACT
GGGGGTACTTGGACCTCAGATCTTCTTTTCTAATAGCCATTTGCCACCCCAAGTGGTAT
GTCGGCCATTTCTCCTTAAACACCTTCCCTACCTTTCCCATGTACTCAGTTTAGCTCTC
AAAGAAGGGGTGAATCATAAAGCCAGTGAAAATTTACCCCTCTGAGGGAGTTCCCAATC
TGAAGGGGAAGAGGGTGACCTCAGCGGCTTTTCTCCAAAATCGGCTGAAGGCTGGTTG
TGGATCCTTGTTCTCCTGACCCCATCTGGCTGCTGCCCCGTCTCCACCCCTGTCCC
CGGGGCTCGCTGGCCCTGCACTCCGCCTTAGTCTGGGGCCGGCGACACAGTGGGGGCTC
CTCACTTGCTGCAGTGTATAGCAATAAAATGTGATTCTTGGGGTCCCCCAGGGAGCTG
CCCATGGCTTTATTTATGAACCTGGTTTTTGGGAGTCAGGGGAGGAGATGACTTTGCTTC
TGTGCACAGCCCCGTCTTCCAGGAGCCCAACTCAGAAGAAAAGGTGCTCAGACTTTTTG

FIGURE 1 (CONT'D)

TTATACACATTTGCTTTGTGTAAATAAATGTTTACAATTTTATATGAAAGATGGAATAAG
CGCTAGAGCTTCCAACGTATATTTTTTACTTTTATAGATTTTAAACTATGATCCTTTA
TATGTGTGTTTTGGGGGAGCTATGATAAGTTTTATGGCAAACGGTTGGTATTGTTAACTT
TTTATTGTATCAAAAGTTTATAAAAGTCCTATTAATCCCATATTCTTCTACTGCCCTT
AACTCTGGTATACACCAAAAAGAAATCTTTACTTTCTTGTGTTTTATCATTATAAAAATAA
AGTATTTTGTAGTATGG

Gene 257. >ENST00000292596 cDNA sequence

CTGCTCTTCTCTCTCTGGGCCGTCTCTGAGCAGCAGACGGGGCTAAGCGTTCCCCAGCT
CGCCTTTCACACACAGCCCGTGCCACCACACCGACGGTACCATGAAGGACGAGGTAGCTCT
ACTGGCTGCTGTCAACCTCTCTGGGAGTCCTGCTGCAAGCCTACTTCTCCCTGCAGGTGAT
CTCGGCGCGCAGGGCCTTCCGCGTGTGCGCCCGCTCACCACCGGCCACCCGAGTTTGA
GCGCGTCTACCGAGCCAGGTGAACTGCAGCGAGTACTTCCCGCTGTTCTCGCCACGCT
CTGGGTGCGCGGCATCTTCTTTTATGAAGGGGCGGCGGCCCTGTGCGGCCTGGTCTACCT
GTTGCGCGCCTCCGCTACTTCCAGGGCTACGCGCGCTCCGCGCAGCTCAGGCTGGCACC
GCTGTACGCGAGCGCGCGCGCCCTCTGGCTGCTGGTGGCGCTGGCTGCGCTCGGCCTGCT
CGCCCACTTCTCCCGGCCGCGCTGCGCGCCGCGCTCCTCGGACGGCTCCGGACGCTGCT
GCCGTGGGCCTGAGACCAAGGCCCCCGGGCCGACGGAGCCGGGAAAGAAGAGCCGGAGCC
TCCAGCTGCCCCGGGGAGGGGCGCTCGCTTCCGCATCCTAGTCTCTATCATTAAAGTTCT
AGTGACCG

Gene 258. >ENST00000292588 cDNA sequence

GCCAGCTCGCCGCTCGCTATGGCGTCGCTCACCGTGAAGGCCTACCTTCTGGGCAAGGAG
GACGCGGCGCGCAGATTGCGCGCTTCAGCTTCTGCTGCAGCCCCGAGCCTGAGGCGGAA
GCCGAGGCTGCGGCGGGTCCGGGACCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTG
TTCCCCGCGCTGCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTG
GTTGCCTTTTTCCAGTGACGAGGAATTGACAATGGCCATGTCTACGTGAAGGATGACATC
TTCCGAATCTACATTAAAGAGAAAAAAGAGTGCCGGCGGGACCACCGCCACCGTGTGCT
CAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGGGCCT
GTGGTAGGAACCCGCTACAAGTGCAGCGTCTGCCCAGACTACGACTTGTGTAGCGTCTGC
GAGGGAAAGGGCTTGACCCGGGGGACACCAAGCTCGCATTCCCCAGCCCCCTTCGGGCAC
CTGTCTGAGGGCTTCTCGCACAGCCGCTGGCTCCGGAAGGTGAAACACGGACACTTCGGG
TGGCCAGGATGGGAAATGGGTCCACCAGGAACTGGAGCCACGTCTCTCTCGTGCAGGG
GAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAGTGTG
AATTTCTGAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAA
GTTGATATCGATGTGGAGCACGGAGGGAAAAGAAGCCGCTGACCCCGTCTCTCCAGAG
AGTTCCAGCACAGAGGAGAAGAGCAGCTCACAGCCAAGCAGCTGCTGCTCTGACCCAGC
AAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGCGGAGCAGATGAGGAAGATC
GCCTTGGAGAGCCAGGGCCATGTTTTGTTCCAGGAACAGATGGAGTCGGATAACTGTTCA
GGAGGAGATGATGACTGGACCCATCTGTCTTCAAAGAAGTGGACCCGTCTACAGGTGAA
CTCCAGTCCCTACAGATGCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCAGGAG
GGACCCACAGGGCTGAAGGAAGCTGCCTTGTACCCACATCTCCCGCCAGGCAACACCACT
CCTCATGGCTTCTTACTGTTTTCGGCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCC
CAGATGCTGTCCATGGGCTTCTCTGATGAAGGCGGCTGGCTCACCAGGCTCCTGCAGACC
AAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATCCCCCGCCG
TTGTGA

Gene 259. >ENST00000292591 cDNA sequence

CCTGCCTCTGCCCTTCTGAGCCTGTTCTCTTCCCTGAGTACAGGGCACAAAGCTTGCGC
CCTGAGGGGCGGCCGGCGCGCTCCCTGGCCCGGTCCCCGCCCGGGCCCCGGCCCCCGCC
CCTCCCCGACCCGGGGCCGGGGCCCCCTGCCGCCGCCGCCGCCCTTCCGACCCCTGCGC
CCCGGCCCGGTCCCCGGGGCCATGCAGCCTCGGCCCGCGGGCGCCCGCGCGCACCCG
AGGAGATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTCTTCTGCCTGTGCGCCT
TCCTCTCGCTGTCTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTGGACGTTT
ACCAGCGGGAGTTCTTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCA
AGCGCTCCAAGGAGCTCAACCTGGTGTGACGAGATCAAGAGGGCCGTGTGAGAAAGGC
AGGCGCTGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGAT

FIGURE 1 (CONT'D)

TGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCACCTGCCACCGTCTTCCATCACC
 TGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGCCAGGGCC
 GCACCGGAGTGTGCGGTGGTGATGGGCATCCCGAGCGTGCAGCGCGAGGTGCACTCGTACC
 TGA CTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGG
 TCATCGTGGTGTGATCGCCGAGGCGAGGTGCTTGGTCTCCCCACAGACTGACTCACAGT
 ACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGGAGATCCATTCTGGGC
 TCCTGGAGGTCTCTCACCTCCCCCACTTCTACCCTGACTTCTCCGCTCCGAGAGT
 CCTTTGGGGACCCCAAGGAGAGAGTCAAGTGGAGGACCAACAGAACCTCGATTACTGCT
 TCCTCATGATGTACGCGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCG
 TGGCCAAGCCCAACTACCTGAGCACCATGAAGAACTTTGCACTGCAGCAGCCTTCAGAGG
 ACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGATGTTCAAGTCGCTGG
 ACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
 TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTG
 ACCGGCAGAAAGCCAACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCA
 CTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGACTTTGGAAAGCAGG
 CGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACC
 AGCACTTCACCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCTTCAACCTG
 CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCAAACCTCTAAGACTGGAGCGGTTCTTCT
 TCCGCGAGTGGGAACATCGAGCACCCGGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGC
 TGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGCCGCACCGCCACCC
 TCCGGTACCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGGAGTGG
 CAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
 CGGACTCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAGGCCGACTAAGCTG
 CGGGCTTCTGAGGGTACCTGTGGCCAGCCCTGAAGCCCAATTTCTGGGGGTGTGTCAT
 CTGCCGTCCCCGGAGGGCCAGATACGGCCCCGCCAAAGGGTTCTGCCTGGCGTGGGGCT
 TGGGCCGGCCCTGGGGTCCGCCGCTGGCCCGGAGGCCCTAGGAGCTGGTGCTGCCCCGCC
 CGCCGGGCCCGGGAGGAGGCAGGCGGCCCCCACTGTGCCTGAGGCCCGGAACCGTTG
 CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCT
 CTGGCGCGAACACTGGAATGCATATACTACTTTATGTGCTGTGTTTTTATTCTTGATA
 CATTTGATTTTTTACGTAAGTCCACATATACTTCTATAAGAGCGTGACTTGTAATAAAG
 GGTAAATG

Gene 260. >ENST00000328625 cDNA sequence

ATGGCGTTCAGCGTTCTCGGGTGCTACGCTGCTGCAGCTGCCGCCTCTTCCAGGCG
 CACCAGGTAAAAAGAGTGTCAAGTGGACATGCAAAGCTTGTGGAGAGAAGCAGTCCTTT
 TTGCAGGCTTATGGTGAAGGCTCTGGTGCTGATTGTAGACGCCATGTCCAAAAGTTAAAT
 CTACTACAGGGACAAGTTTCAGAGCTGCCACTCAGGTCTCTAGAAGAACTGTCAAGTGCC
 AGTGAAGAAGAAAACGTGGGACACCAGCAGGCTGGGAATGTGAAGCAGCAGGAAAAATCG
 CAGCCCTCAGAGAGTGTGTTTCAGCAAAACAGCCTTCATCCAAAATGGAGGAGCCAGGCCCC
 CGCTTCAGTCAAGACCTGCCTAGAAAAAGAACAGAGGCCAGCCAAGGCCAGGCAGGG
 CAGGCGGTCTCTGGGCCCTGGCATTGTTCTTACACATGGAGGGCATGGCCATCTTCTC
 TTTAGGGACAGGCTGGCCTGACATGGAAGGTGAAACAAGGCAGCAGCCCTGCCTCCAG
 GAGAACTCTGCAGACTGCAGTGCCGGGGAGCTGAGGGGTCTGGGAAGGAGCTATGGAGT
 CCCATCCAGCAGGTTACAGCCACATCCTCTAAATGGGCGCAATTTGTCTGCCACCTAGA
 AAAAGTTCACATGTGGACAGTGAGCAGCCAAGGTCTCTTCAAGGGGACCCAGGCCAGCT
 GGTCCAGCACAGGCTAAGCAAGGGACCCCAAGGACAGGCTCAAGAGAAGGCTCAGC
 AGGCCACTGCCGCTGTCCAGCTTCTCGGGCCACACACCCCGTCACATCTGGGTCTGAG
 AGGCCTTGCGGAAGACCTCATGGGACGCAAGGACTCCCTGGGCAGAGGGTGGGCCCCCTG
 GTCTGGAGGCACAGAATCCTCGACCCACACGACTATGTGACCTCTTTATAACTGGGGAA
 GACTTCGATGATGATGTGTGA

Gene 261. >ENST00000292586 cDNA sequence

CGTCGCTTCAGCGTTCTCGGGTGCTACGCTGCTGCAGCTGCCGCCTCTTCCAGGCGCACC
 AGGTAAAAAGAGTGTCAAGTGGACATGCAAAGCTTGTGGAGAGAAGCAGTCCTTTTTGC
 AGGAAAAATCGCAGCCCTCAGAGAGTGTGGCTGAAGTATCTAGAAAAGGACTCCCAAG

FIGURE 1 (CONT'D)

AACTGGAGCTGGAAGGAACAGGAGTGTGTTTCAGCAAACAGCCTTCATCCAAAATGGAGG
AGCCAGGCCCCCGCTTCAGTCAAGACCTGCCTAGAAAAAGGAAGTGGAGCAGGAGCACCG
TCCAGCCTCCGTGCAGCCGTGGCGTGCAGGACTCGGGTGGCTCTGAGGTCGCCTGGGGAC
CCCAGAAGGGACAGGCTGGCCTGACATGGAAGGTGAAACAAGGCAGCAGCCCCTGCCTCC
AGGAGAACTCTGCAGACTGCAGTGCCGGGGAGCTGAGGGGTCTGGGAAGGAGCTATGGA
GTCCCATCCAGCAGGTTACAGCCACATCCTCTAAATGGGCGCAATTTGTCTGCCACCTA
GAAAAAGTTTACATGTGGACAGTGAGCAGCCAAGGTCTCTTCAGAGGGACCCAGGCCAG
CTGGTCCAGCACAGGCTAAGCAAGGGACCCCCAGAGCACAGGCCTCAAGAGAAGGCCTCA
GCAGGCCCACTGCCGCTGTCCAGCTTCCTCGGGCCACACACCCCGTCACATCTGGGTCTG
AGAGGCCTTGCGGGAAGACCTCATGGGACGCAAGGACTCCCTGGGCAGAGGGTGGGCCCC
TGGTCTCGGAGGCACAGAATCCTCGACCCACACGACTATGTGACCTCTTTATAACTGGGG
AAGACTTCGATGATGATGTGTGATCTGGGACTGGCAGGTTATTAATCGAGATACACTTGT
TAGGAGGGACAGGGTTCCCTAAGGCACTTTTAAAGATACTCTGTAAGAACCATTAAACA
TAACTTACTGTCAATCATTTCTCTCT

Gene 262. >ENST00000318682 cDNA sequence

CTCTCTGCTTCCTCCTGGCTGCCTCCCCCTTCCCCTACCAGGTGGGCTCTGTGGTTCTTC
AAGAATGACCGCAGCCGGGCCTGGCAGGACAACCTGCACCTGGTCACCAAGGTGGACACT
GTGGAGGACTTCTGGGCGCTATACAGTCACATCCAGCTGGCCAGCAAGCTCTCCTCTGGC
TGTGACTACGCCCTCTTCAAGGATGGCATCCAGCCCATGTGGGAGGACAGCAGGAATAAA
CGGGGTGGCCGCTGGCTGGTCAGCCTGGCCAAGCAGCAGCGCCACATTGAGCTGGACCGG
CTGTGGCTGGAGACGCTGCTGTGTCTGATCGGGGAGAGCTTTGAGGAACACAGCAGAGAG
GTATGTGGGGCCGTCGTCAACATCCGCACCAAGGGGGACAAGATCGCTGTGTGGACGAGG
GAGGCGGAAAACCAGGCGGGCGTGCTGCACGTTGGGCGTGTATACAAAGAGCGCCTGGGC
CTCTCCCCAAAGACCATCATTGGGTACCAGGCCCATGCAGACACAGCCACCAAGAGCAAC
TCCCTAGCCAAGAACAAGTTTGTGGTGTGA

Gene 263. >ENST00000310112 cDNA sequence

CGTGACAGGCGGGTCTGGATATTGCGCGCGAACCAGCACTCCGGTTTCGACGGGGCTG
CAGTTTGCAGGGCCCGGATAACCGAGGCAGTGGCCCCCTCCCGCGTCCCAGGTTTCAAGG
ACGCTAGGACTCTCCGCGGCCCTGAGGCTTCGCACTGGGGAGTGGGGCCGCCAGGATGGA
CGTGTTTCATGAAGGGCCTGTCCATGGCCAAGGAGGGCGTTGTGGCAGCCGCGGAGAAAAC
CAAGCAGGGGGTCAACGAGGCGGCGGAGAAGACCAAGGAGGGCGTCTCTACGTCGGAAG
CAAGACCCGAGAAGGTGTGGTACAAGGTGTGGCTTCAGTGGCTGAAAAACCAAGGAACA
GGCCTCACATCTGGGAGGAGCTGTGTTCTCTGGGGCAGGGAACATCGCAGCAGCCACAGG
ACTGGTGAAGAGGGAGGAATTCCCTACTGATCTGAAGCCAGAGGAAGTGGCCAGGAAGC
TGCTGAAGAACCACTGATTGAGCCCCTGATGGAGCCAGAAGGGGAGAGTTATGAGGACCC
ACCCAGGAGGAATATCAGGAGTATGAGCCAGAGGCGTAGGGGCCAGGAGAGCCCCCAC
CAGCAGCACAAATTCTGTCCCTGTCCCTGCCCCGCCCCCAGAGCCAGGGCTGTCTTTAGA
CTCCTTCTCCCCAATCACGAGATCTTCTTCCGCTCTGAGGCAACCCCCCTCGGAGCCTGT
GTTAGTGTCTGTCCATCTGTCTGTCTTACCCGCCCCGCTCCAACCCCGGGGCATGGACAG
GGCCAGGGTTGCGGTGCGGGCTGGGAGCCTCGCCCCCTCCAGTGTTGCCTCCTCCCATCCA
GCGTCTGCGCGGATGTAGCATGTTCTATGTGTTTTTAAACGAAGATCCGAGCGACGGCTC
CTCCCCGATCCCCGACAGTGGCTCTCCAAGCGGCCCCCGGGCAGCCCCAGAGCACCCCGC
CCGACTCCCATTAACCTCGAGAACCTTTTTTTTTTTTAAACAAAACAGGAGCCAGGCTGT
GCCATGTCCCCCGCCCCCATCCAGCCGGCCCGGTCCGAACGCGGGCGTCTGTGTGTTGT
GATTGTGGCATGGAGAGTCCCCATCCCCCATGTGAGCGTGTCCCGGGCGGGTGGGCCC
GGCCGCCCCGAGAGTCCATGAATAAAGCTAATCTGTCTGT

Gene 264. >ENST00000303991 cDNA sequence

ACGGCGGCGCCGAGTCTGCGGGTCTCCCGCCAGCCCGGCCGGAGGCAGCCGAGGCCGCT
CGGGCGGCGGCGGCGGCGGCGGCGGAGCCGAGCGCATCTCGCCAGGAGCCGGAGCAG
CGGCACTGCCTGAACCAGACAGCAGCCTTGGGTGCAGGCGTGGTCATGAGGGCAGATGGA
CACTGCTGAAGACCCGGCCTGGCTCCAGCTGCTTCAAAGGATTCCAGCCCCCAGGACC
CCGACCCACAGCCTTCTTCTGCCACAGGATGGGAGCCTGGGGGCTGGCAGCTCGGCTAT
GAGGGATTACTGCCCCCTCCAGCAAAGGCAAGCCCTGCACCCCCCAGGCACACCCCTGA
CCAAAGCCCAGGCATGGAGTCTAGACACAGAAGCCCCAGTGGGGCTGGGAAGGGGCCTC

FIGURE 1 (CONT'D)

CTGCTCTGACGGCCCCAGAGGGAGCCTGGCCTGCCCCCTCCCCAACCTGCTTCTCTCCCCA
GGAGTCAACCTCCAAGGAGACATTGGAGGCACATGGAGCCTCCATCTCAGGGACACCAGA
AGCCACCACGTCTGGGAAGCCAGAGCCTGTGTCTCCGTGAAAACCTGAGCCCAAATCCTC
AGATGACAGAAATCCCATGTTCTTAGAGAAGATGGATTTCAGTCCTCAAAGCAGGCCGA
TTCCACTTCCATAGGAAAGGAGGATCCTGGGTCTCACGGAAGGCAGATCCCATGTTTAC
AGGAAAGGCAGAGCCTGAAATCTTGGGAAAGGGGGATCCTGTGGCTCCTGGAAGGATGGA
TCCCATGACTGTAAGAAAGGAAGATCTTGGATCCCTGGGAAAAGTAGATCCTTTGTGCTC
CAGCAAGACGTATACAGTGTACCGAGGAAGGAGGATCCTGGGTCTTTGAGAAAGGTGGA
TCCTGTGTCTCAGACAAAGTGGACCCCTGTATTCCCAAGAAAGGAGGAGCCAGGTATTTC
AGGAAAAGAGCATCCTGTGTCTCAGAAAAGGTGCTCCTACATCTGCAGAAAAGGTAGA
TCTTGTATTGTGCGGAAAGAGAGATCCTGGGCCCTCGGGAAAGGCAGATCCCATGCCCTT
GGAAAGCATGGATTCTGCGTCCACAGGAAAGACAGAGCCGGGGCTCCTGGGCAAGCTGAT
TCCAGGCTCATCAGGCAAGAATGGGCCTGTATCCTCTGGGACCGGGCTCCTGGGTCTTT
GGGAAGGCTGGATCCCACATGCTTGGGGATGGCAGATCCCGCATCTGTGGGAAATGTAGA
AACTGTGCCTGCCACAAAAGAGGACTCCCGGTTCTGGGAAAGATGGACCCCTGCCTCCTC
AGGAGAGGGGCGTCTGTGTCTGGCCACACGGATACTACGGCTTCAGCAAAGACAGATCT
CACATCTTTGAAAATGTGGATCCCATGTCTTCAGGCAAGGTGGATCCAGTTTCTCTGGG
AAAGATGGACCCCATGTGCTCAGGAAAGCCAGAGCTCTTGTCTCCTGGACAGGCAGAGCG
TGTGTCTGTGGGAAAGGCAGGAACTGTATCCCCAGGAAAAGAGGACCCGGTGTCTCCAG
AAGGGAGGACCCCATATCTGCTGGAAGTAGAAAGACATCATCTGAAAAGTGAATCCTGA
GTCTTCAGGAAAGACAAACCTGTGTCTTCAGGTCCAGGCGATCCAGGTCTTGGGGAC
AGCAGGTCCCCCATCTGCAGTAAAGGCTGAGCCAGCGACGGGGGAAAAGGAGATCCCCT
GTCCTCGGAGAAGGCAGGTCTGGTGGCCTCTGGAAAGGCGCTCCACAGCCTCAGGGAA
GGCCGAGCCCCCTCGCGGTGGGCAAGGAGGACCCCTGTGAGCAAGGGAAAGGCAGACGCTGG
CCCCTCTGGACAAGGGGACTCTGTGTCTATAGGTAAAGTGGTCTCAACTCCAGGAAAAAC
AGTCCCGGTGCCCTCGGGGAAGGTGGATCCCGTGTCCCTGGGAAAAGCAGAAGCTATCCC
AGAGGGAAAAGTGGGTTCTCTGCCTCTAGAGAAGGGGAGTCTGTACCACCACAAAGGC
GGATCCCAGGGCCTCGGGGAAAGCACAGCCGAGTCTGGTGGCAAAGCAGAAACAAAGCT
CCCTGGGCAAGAGGGCGCTGCAGCACAGGGGAAGCAGGGGCTGTGTGTTTGAAAAGGA
GACACCACAGGCCTCAGAGAAGGTGGATCCTGGATCCTGCAGAAAAGCAGAGCCCCTTGC
CTCAGGGAAGGGAGAGCCTGTGTCCCTGGGGAAAGCCGACTCTGCACCTTCAGAAAAAC
GGAGTCCCCATCCTTGGGGAAAGGTGGTCCCCCTGAGTCTGGAGAAGACCAAGCCGTCTC
CTCCTCCAGGCAGTTAGACCGCAAAGCCCTCGGCTCAGCCCGGTCTCCCGAGGGTGCCAG
GGGCAGTGAAGGCCGCGTGGAGCCGAAGGCCGAGCCCGTGTCCAGCACCGAGGCCTCCAG
TCTCGGCCAGAAAGACCTGGAAGCCGCTGGGGCCGAGAGAAGCCCCTGCCAGAGGCCGC
AGCGCCCCCGCCGGGGCCGCGGACTCGCGACAACCTTACCAAGGCGCCGTCTGTGGGAGGC
GAGCGCCCCCGCCGCGCGCGGAGACGCGGGCACTCAGGCGGGCGCGCAGGCCTGCGT
CTCAGTGGCCGTGAGCCCCATGTCTCCGAGGACGGCGCTGGGGGCTCGGCCTTCAGCTT
CCAGGCGGCGCGCGCGCGCCAGCCCGCCCTCGCGCCGAGATGCGGGCCTGCAGGTGTC
GCTGGGCGCGCGGAGACGCGCTCCGTGGCCACTGGGCCCATGACACCTCAAGCCGCGCG
GCCGCCCGCCTTCCCCGAAGTGCGGGTGC GGCCCGGCTCAGCGCTGGCGGCCGCTGTAGC
GCCCCCGGAGCCGGCTGAGCCCGTGCGAGACGTGAGCTGGGACGAGAAGGGCATGACGTG
GGAGGTATACGGCGCCGCCATGGAGGTGGAGGTGCTGGGCATGGCCATCCAGAAGCATCT
GGAGCGACAGATCGAGGAGCACGGCCGCCAAGGGGCGCCCGCGCCCGCCCGCCCGCCG
TGCCGGCCCCGGCCGTTTGGGCTCGGTGCGCACCGCGCCCCCAGATGGCGCCGCCAAGCG
TCCGCCCCGGCCTGTTCCGCGCGCTGCTGCAGAGTGTGCGCCGGCCGCGGTGCTGCTCGCG
GGCGGGACCCACGGCCGAGTGATCTGCCCCATTTTGTACGCCCGAGTTTCCGACCTTCT
CAGGCTCCCTTCTTGATCACAGGCCCTTAGAAGGGGTCCCCTCTGCGTGCCACAGGCCTC
CGAGGGGTTGTGCAGCCTCTAGGGCTGTTGCGTCCCCGTCTTTCCAGCCCCCTCCCATCAC
AAATACAGAAGAACCCTTCTACCAAGCTCCCTCGTGGCCACGAGGCCACGAACCCGGCC
AGCCCTGACGCCCACTGTCCCCTCACAGCCCTCAGCTCTACTCCCGGTCACTTGGGCG
ACCACGGGGGCTGCTCAGCACCCCTCACCTCCCACCCCTGAGAGCTGGGGCAGGCTCCT
GAGATGTCTAGACTGGTGCCTTGTGGTCTCCGGTGGGGCCAGATCCCCAGAACAGGGAGA
GACTGCATACAAGTCTGAGTGGCAGAAGCTTCAAGTGGGTGAGGATCGGTGTGTGAGACC

FIGURE 1 (CONT'D)

CGCGAGTGGGCACGTCTCTGAATGTGAGGTCTCGGGCAGCACGTGAGGTAGAACGAGTGT
GAGCGTCTCCACGCAGTGGCTGGCCCCGTGGCCGGGGCGTCTCTTGATGCTGTTGGTGG
TCCTTCCCCAGTTTCTATCTCCACCCGCTGGTTCCAGCCCCATCCCCTCTCCCACTGA
GTCACAGGTTTGGAGATTCCAGAGAGGCCAAAGACAGCTACAGGAAGTACCCTGGGGGCT
CAGCTGAGAGAGAGTACAGAAAGGCCAGAGGGTCTCAGGAAGGTCTGGAGGTACAGCT
GGGCTCACAGAAGCTCTTGGGCCCTGGCATCCTGGGTGACCGGTGTTCTTGGGTATTGGG
GACAGGACAGAGAGCTCATTCTATAACCACAGTTGTCTTTAAAGGCCACCCTCTCCAGC
CCCTTGTCCCCCTGTGCTGTGAGCCCAAGTCCCTTGTGACCACTCAGTGTCCCGTCCCC
ACCCCTCCAGCCGAGTTTTTGGCTACAACTGTACAGTATACATTGGTAATAAAATAT
TTCCCC

Gene 265. >ENST00000335532 cDNA sequence

GGGCAGATGGACACTGCTGAAGACCCGGCCTGGCTCCAGCTGCTTCAAAGGATTCCAGC
CCCCAGGACCCCGACCCACAGCCTTCTTCTGCCACAGGATGGGAGCCTGGGGGCTGGC
AGCTCGGCTATGAGGGATTACTGCCCCCTCCAGCAAAAGGCAAGCCCTGCACCCCCCAGG
CACACCCCTGACCAAGCCCAGGCATGGAGTCTAGACACAGAAGCCCCAGTGGGGCTGGG
GAAGGGGCCTCCTGCTCTGACGGCCCCAGAGGGAGCCTGGCCTGCCCTCCCCAACCTGC
TTCTCTCCCCAGGAGTCAACCTCCAAGGAGACATTGGAGGCACATGGAGCCTCCATCTCA
GGGACACCAGAAGCCACCACGTCTGGGAAGCCAGAGCCTGTGTCTCCGTGAAAAGTGG
CCCAAATCCTCAGATGACAGAAATCCCATGTTCTTAGAGAAGATGGATTTCAAGTCTCA
AAGCAGGCCGATTCCACTTCCATAGGAAAGGAGGATCCTGGGTCTCACGGAAGGCAGAT
CCCATGTTTACAGGAAAGGCAGAGCCTGAAATCTTGGGAAAGGGGGATCCTGTGGCTCCT
GGAAGGATGGATCCCATGACTGTAAGAAAGGAAGATCTTGGATCCCTGGGAAAAGTAGAT
CCTTTGTGCTCCAGCAAGACGTATACAGTGTACCGAGGAAGGAGGATCCTGGGTCTTTG
AGAAAGGTGGATCCTGTGTCTCAGACAAAGTGGACCCTGTATTCCAAGAAAGGAGGAG
CCCAGGTATTACAGGAAAAGAGCATCCTGTGTCTCAGAAAAGGTGCTCCTACATCTGCA
GAAAAGGTAGATCTTGTATTGTCTGGGAAAGAGAGATCCTGGGCCCTCGGGAAAGGCAGAT
CCCATGCCCTTGGAAAGCATGGATTCTGCGTCCACAGGAAAGACAGAGCCGGGGCTCCTG
GGCAAGCTGATTCCAGGCTCATCAGGCAAGAATGGGCCTGTATCCTCTGGGACCGGGGCT
CCTGGGTCTTGGGAAGGCTGGATCCCATATGCTTGGGGATGGCAGATCCCGCATCTGTG
GGAAATGTAGAAACTGTGCCTGCCACAAAGAGGACTCCCGGTTCTGGGAAAGATGGAC
CCTGCCTCCTCAGGAGAGGGGCGTCTGTGTCTGGCCACACGGATACTACGGCTTCAGCA
AAGACAGATCTCACATCTTTGAAAATGTGGATCCCATGTCTTCAGGCAAGGTGGATCCA
GTTTCTCTGGGAAAGATGGACCCCATGTGCTCAGGAAAGCCAGAGCTCTTGTCTCCTGGA
CAGGCAGAGCGTGTGTCTGTGGGAAAGGCAGGAACTGTATCCCAGGAAAAGAGGACCCG
GTGTCTCCAGAAGGGAGGACCCCATATCTGCTGGAAGTAGAAAGACATCATCTGAAAAA
GTGAATCCTGAGTCTTCAGGAAAGACAAACCTGTGTCTTCAGGTCCAGGCGATCCCAGG
TCCTTGGGGACAGCAGGTCCCCCATCTGCAGTAAAGGCTGAGCCAGCGACGGGGGAAAA
GGAGATCCCCTGTCTCGGAGAAGGCAGGTCTGGTGGCCTCTGGAAAGGCGGCTCCCA
GCCTCAGGGAAGGCCGAGCCCTCGCGGTGGGCAAGGAGGACCCTGTGAGCAAGGGAAAG
GCAGACGCTGGCCCCCTCTGGACAAGGGGACTCTGTGTCTATAGGTAAAGTGGTCTCAACT
CCAGGAAAAACAGTCCCGGTGCCCTCGGGGAAGGTGGATCCCGTGTCCCTGGGAAAAGCA
GAAGCTATCCAGAGGGGAAAAGTGGGTTCTCTGCCTCTAGAGAAGGGGAGTCTGTATTACC
ACCACAAAGGCGGATCCCAGGGCCTCGGGGAAAGCACAGCCGAGTCTGGTGGCAAAGCA
GAAACAAAGCTCCCTGGGCAAGAGGGCGCTGCAGCACCAGGGGAAGCAGGGGCTGTGTGT
TTGAAAAGGAGACACCAAGGCCTCAGAGAAGGTGGATCCTGGATCCTGCAGAAAAGCA
GAGCCCCTTGCTCAGGGAAGGGAGAGCCTGTGTCCCTGGGGAAAGCCGACTCTGCACCT
TCCAGAAAAACGGAGTCCCCATCCTTGGGGAAGGTGGTCCCCCTGAGTCTGGAGAAGACC
AAGCCGTCTCTCTCCTCCAGGCAGTTAGACCGCAAAGCCCTCGGCTCAGCCCGGTCTCCC
GAGGGTGCCAGGGGCAGTGAAGGCCGCTGGAGCCGAAGGCCGAGCCCGTATGGCGCCGC
CAAGCGTCCGCCCCGGCCTGTTCCGCGCGCTGTGTCAGAGTGTGCGCCGGCCGCGGTGCTG
CTCGCGGGCGGGACCCACGGCCGAGTGATCTGCCCCATTGTTGTACGCCCGAGTTTCCGA
CCTTCTCAGGCTCCCTTCTTGATCACAGGCCCTAG

Gene 266. >ENST00000261944 cDNA sequence

GCCTCCGTGGCGAAGGGGACACAGGTCCCTGCGGATGTGATGGCCCAGCTATGGCTGTCC

FIGURE 1 (CONT'D)

TGCTTCCTCCTTCCTGCCCTCGTGGTGTCTGTGGCAGCCAACGTGGCCCCGAAGTTCCTA
 GCCAACATGACGTAGTGATCCTGCCTGAGGACCTGCCTGTGGGTGCCAGGCCTTCTGG
 TTGGTAGCGGAAGACCAGGACAATGACCCTCTGACCTATGGGATGAGCGGCCCAATGCC
 TACTTCTTCGCTGTCACTCCGAAACTGGGGAAGTGAAGCTGGCCAGCGCTCTGGACTAC
 GAGACACTCTACACATTCAAAGTCACCATCTCCGTGAGCGACCCCTACATCCAGGTGCAG
 AGGGAGATGCTGGTGATTGTGGAAGATAGAAACGACAACGCACCCGTTTTCCAGAACACC
 GCTTTCTCCACCAGCATCAACGAGACCCTGCCCGTGGGCAGTGTGGTGTTCTCCGTGCTG
 GCCGTGGATAAAGACATGGGGTCTGCAGGCATGGTCTGTACTCCATAGAGAAGGTCATC
 CCTAGCACTGGGGACAGCGAGCATCTCTTCCGGATCCTGGCCAATGGCTCCATAGTCCTC
 AATGGCAGCCTCAGCTACAACAACAAGAGCGCTTTCTACCAGCTGGAGCTGAAGGCCTGT
 GACTTGGGCGGCATGTACCACAACACCTTCACCATCCAGTGCTCCCTGCCTGTCTTCCTG
 TCCATCTCCGTGGTGGACCAGCCTGACCTTGACCCCCAGTTTTGTAGGGAGTTTTACTCG
 GCCTCTGTGGCTGAGGATGCAGCCAAGGGAACCTCGGTGCTGACGGTGGAGGCTGTGGAT
 GGCAGACAAAGGCATCAATGACCCTGTGATCTACAGCATCTCCTACTCCACGCGGCCCGGC
 TGGTTTTGACATCGGGGCAGATGGGGTGATCAGGGTCAACGGCTCCCTGGACCGTGAGCAG
 CTGCTGGAGGCGGATGAGGAGGTGCAGCTGCAGGTACGGCCACCGAGACACACCTCAAC
 ATCTACGGGCAGGAGGCCAAGGTGAGCATCTGGGTGACAGTGAGAGTGATGGACGTCAAT
 GACCACAAACCTGAGTTTTACAACCTGCAGCCTCCAGCCTGCACCTTCACCCCCGAAGAG
 GCCCAAGTGAACCTTCACTGGCTACGTGGACGAGCATGCCTCCCCCGCATCCCCATCGAT
 GACCTCACCATGGTGGTCTACGACCCGGACAAGGCAGGCGGCAGCAATGGCACCTTCCTG
 TTGTCTGCTGGGGGGCCCCGATGCAGAAGCCTTCAGCGTCTCCCGGAGCGGGCAGTGGGC
 TCAGCCTCCGTTTCAAGTGCTGGTGAGAGTATCCGCGCTGGTGGACTACGAGAGGCAGACG
 GCGATGGCGGTGCAGGTTGTGGCCACAGACTCCGTGAGCCAGAACTTCTCCGTGCGCATG
 GTGACCATCCACCTTAGAGACATTAATGACCACAGGCCACGTTTTCCCAGAGCTTGATAC
 GTCCTCACGGTGCCAGAGCACAGCGCCACCGGCTCTGTGGTCAACGACAGCATCCACGCC
 ACGGACCCAGACACGGGCGCGTGGGGCCAAATTACCTACAGCCTGCTCCCAGGAAATGGG
 GCAGACCTCTTCCAAGTGATCCCGTCTCAGGGACGGTGACGGTGAGGAACGGTGAGCTG
 CTGGACCGGGAGAGCCAGGCCGTGTACTACCTGACGCTGCAGGCCACAGACGGCGGGAAC
 CTGTCTCTCTCCACCACACTGCAGATCCACCTGCTGGACATCAACGACAATGCACCCGTG
 GTTAGCGGCTCCTACAACATCTTCGTCCAGGAGGAGGAGGGCAATGTCTCCGTGACCATC
 CAGGCCCACGACAATGATGAGCCGGGCACCAACAACAGCCGTCTGCTCTTCAACCTGCTG
 CCTGGCCCCCTACAGCCACAACCTTCTCCTTGGACCCCTGACACAGGGCTCCTCAGAAACCTG
 GGGCCCCCTGGACAGAGAGGCCATCGACCCCCGCCCTGGAGGGCCGATTGTGCTGACAGTG
 CTTGTGTCTGACTGCGGCGAGCCTGTCTCGGCACCAAAGTCAATGTACCATCACTGTG
 GAGGACATCAATGATAACCTGCCCATCTTCAATCAGTCCAGCTACAACCTTACGGTGAAG
 GAGGAGGATCCAGGAGTGCTAGTGGGCGTGGTGAAGGCCTGGGACGCGGACCAGACGGAA
 GCCAACAACCGCATCAGCTTCAGCCTGTCCGGGAGTGGTGCCAACCTACTTCATGATCCGA
 GGCTTGGTGCTGGGGGCTGGGTGGGCTGAGGGCTACCTCCGGCTGCCCCCGGACGTGAGC
 CTGGATTACGAGACACAGCCCGTCTTCAACTTGACAGTGAGTGCTGAGAACCAGACCCC
 CAGGGGGGTGAGACCATAGTAGACGTCTGCGTGAATGTGAAAGACGTGAACGACAATCCC
 CCCACCCTGGATGTAGCCTCACTCCGGGGCATCCGTGTGGCTGAGAATGGCTCACAGCAC
 GGCCAGGTGGCTGTGGTGGTTGCCTCGGATGTGGACACCAGTGCCAGCTGGAGATACAG
 CTTGTGAACATTCTCTGCACCAAGGCCGGGGTCTGATGTGGGCAGCCTATGCTGGGGCTGG
 TTCTCAGTGGCGGCCAACGGCTCTGTGTACATCAACCAGAGCAAAGCCATCGACTACGAG
 GCCTGTGACCTGGTCACGCTGGTTGTGCGGGCCTGTGACCTAGCCACGGACCCCGGCTTC
 CAGGCCTACAGCAACAATGGAAGCCTCCTCATTACCATGAGGACGTGAATGACAATGCA
 CCCTATTTTCTGCCTGAGAATAAGACTTTTGTGATCATCCCTGAACTCGTGCTGCCAAC
 CGGGAGGTGGCTTCTGTCCGGGCCAGAGACGATGATTAGGGGAACAATGGCGTCATCCTG
 TTCTCCATCCTCCGAGTAGACTTCATCTCTAAGGACGGGGCCACCATCCCTTTCCAGGGT
 GTCTTCTCGATCTTCACCTCCTCCGAGGCCGACGTGTTCTGCTGGGAGCATTACGCCGGTG
 ACCAGCCTCGACTCCACTCTCCAAGGCACCTACCAAGTGACAGTCCAGGCCAGGGACAGA
 CCTTCCTTGGGTCTTTTCTGGAAGCCACCACCCTGAATCTCTTCACCGTGGACCAG
 AGTTACCGCTCGCGGCTGCAGTTCTCCACACCGAAGGAGGAGGTGGGCGCCAACAGACAG
 GCGATTAATGCGGCTCTTACCCAGGCAACCAGGACTACAGTATACATTGTGGACATTACG

FIGURE 1 (CONT'D)

GACATAGATTCTGCAGCTCGGGCCCGACCTCACTCCTACCTCGATGCCTACTTTGTCTTC
 CCCAATGGGTGAGCCCTGACCCCTTGATGAGCTGAGTGTGATGATCCGGAATGATCAGGAC
 TCGCTGACGCAGCTGCTGCAGCTGGGGCTGGTGGTGTGGGCTCCAGGAGAGCCAGGAG
 TCAGACCTGTGAAACAGCTCATCAGTGTATCATAGGATTGGGAGTGGCTTTGCTGCTG
 GTCCTTGTGATCATGACCATGGCCTTCGTGTGTGTGCGGAAGAGCTACAACCGGAAGCTT
 CAAGCTATGAAGGCTGCCAAGGAGGCCAGGAAGACAGCAGAGGGGTGATGCCCTCAGCC
 CCTGCCATCCAGGGACTAACATGTACAACACTGAGCGAGCCAACCCCATGCTGAACCTC
 CCCAACAAAGACCTGGGCTTGGAGTACCTCTCTCCCTCCAATGACCTGGACTCTGTGAGC
 GTCAACTCCCTGGACGACAACCTCTGTGGATGTGGACAAGAACAGTCAGGAAATCAAGGCA
 AGATGGGGGATGAATTGGCCACCACACACCAGAGCCAGATCCAGAGCCCCTGAGC
 GTGGTCTGTAGGACGGCAGGCAGGCGCAAGTGGACAGCTGGAGGGGCCATCCTACACC
 AACGCTGGCCTGGACACCACGGACCTGTGA

Gene 267. >ENST00000251582 cDNA sequence

ATGGATCCGCCGGCGGGAGCCGCTCGCCGCTGCTCTGCCCCGCGCTGCTGCTGCTGCTG
 CTGCTGCTGCCGCCGCCGCTCCTGCCGCCGCCGCCGCCGCCGGAACGCCAGGCTCGCC
 GCCGCCGCCGACCCCCAGGCGGGCCCTGGGGCACGGAGCGGAGCGCATCCTGGCGGTG
 CCCGTGCGCACTGACGCCCAGGGCCGCTTGGTGTCCACGTGGTGTGCGCAGCTACGTCC
 AGAGCAGGGGTACGAGCCCGCAGGGCCGCCCGGTCCGGACCCCGAGCTTCCCCGAGGC
 AACGAGGAGGAGCCTGGCAGTCACCTCTTCTACAATGTACGGTCTTTGGCCGAGACCTG
 CACCTGCGGCTGCGGCCAACGCCCGCCTCGTGGCGCCCGGGGCCACTATGGAGTGGCAG
 GGCAGAGAAGGGCACCAACCCCGTGGAGCCCCTGCTCGGGAGCTGTCTCTACGTGCGAGAC
 GTGGCCGGCCTAGCCGAAGCCTCCTCTGTGGCGCTCAGCAACTGCGATGGGCTGGCTGGT
 CTGATCCGGATGGAGGAGGAGGAGTTCTTCATCGAACCCCTGGAGAAGGGGCTGGCGGCG
 CAGGAGGCTGAGCAAGGCCGTGTGCATGTGGTGTATCGCCGGCCACCCACGTCCCCTCCT
 CTCGGGGGGGCCACAGGCCCTGGACACAGGGGCCTCCCTGGACAGCCTGGACAGCCTCAGC
 CGCGCCCTGGGCGTCTAGAGGAGCACGCCAACAGCTCGAGGCGGAGGGCACGCAGGCAT
 GCTGCGGACGATGACTACAACATCGAGGTCTGCTGGGCGTGGATGACTCTGTGGTGCAG
 TTCCACGGGAAGGAGCACGTACAGAAGTACCTGCTGACACTCATGAACATTGTCAATGAA
 ATCTACCATGACGAGTCCTTGGGTGCCACATCAACGTGGTCTGGTGCAGGATCATCCTC
 CTGAGCTATGGAAAGTCCATGAGCCTCATCGAGATCGGGAACCCCTCTCAGAGCCTGGAG
 AATGTCTGCCGCTGGGCCTACCTCCAGCAGAAGCCAGACACGGGCCACGATGAATACCAC
 GATCACGCCATCTTCTCACACGGCAGGACTTTGGGCCTTCCGGCATGCAAGGCTATGCT
 CCTGTACCCGGCATGTGCCATCCGGTCCGCAGCTGCACCCTGAACCATGAGGACGGCTTC
 TCCTCAGCGTTTGTGGTGGCCCATGAGACTGGCCACGTGCTGGGCATGGAGCACGACGGG
 CAGGGCAACCGCTGTGGCGACGAGGTGCGGCTGGGCAGCATCATGGCGCCCTGGTGCAG
 GCCGCTTCCACCGCTTCCACTGGTCCCCTGTCAGCCAGCAGGAGCTGAGCCGCTACCTG
 CACTCCTATGACTGCCTGCTGGATGACCCCTTCGCCCACGACTGGCCGGCGCTGCCCCAG
 CTCCCGGACTGCACTACTCCATGAACGAGCAATGCCGCTTTGACTTCGGCCTGGGCTAC
 ATGATGTGCACGGCGTTCCGGACCTTTGACCCCTGCAAGCAGCTGTGGTGCAGCCATCCT
 GACAACCCCTACTTTTGAAGACCAAGAAGGGGCCCCCTTGGACGGGACTATGTGTGCA
 CCTGGCAAGCATTGTTTTAAAGGACACTGCATCTGGCTGACACCTGACATCCTCAAACGG
 GACGGCAGCTGGGGCGCTTGGAGTCCGTTTGGCTCCTGCTCACGTACCTGTGGCACGGGC
 GTGAAGTTCAGGACCCGCCAGTGTGACAACCCACACCCGGCCAACGGGGGCCGCACCTGC
 TCGGGCCTTGCCCTACGACTTCCAGCTCTGCAGCCGCCAGGACTGCCCCGACTCCCTGGCT
 GACTTCCGCGAGGAGCAGTGCAGCCAGTGGGACCTGTACTTCGAGCACGGCGACGCCAG
 CACCACTGGCTGCCCCACGAGCACCGGGATGCCAAGGAGAGATGCCACCTGTACTGCGAG
 TCCAGGGAGACCGGGGAGGTGGTGTCCATGAAGCGCATGGTGCATGACGGGACGCGCTGC
 TCCTACAAGGACGCCTTACGCCTCTGTGTGCGCGGGGACTGCAGGAAGGTGGGCTGTGAC
 GGTGTGATCGGCTCCAGCAAGCAGGAAGACAAGTGTGGCGTGTGCGGAGGGGACAACAGC
 CACTGCAAAGTGGTCAAGGGCACGTTACACGGTCACCCAAGAAGCATGGTTACATCAAG
 ATGTTTGAGATCCCTGCAGGAGCCAGACACCTGCTCATTAGGAGGTAGACGCCACCAGC
 CACCATCTGGCCGTCAAGAACCTGGAGACAGGCAAGTTCATCTTAAATGAAGAGAATGAC
 GTGGATGCCAGTTCCAAAACCTTCATTGCCATGGGCGTGGAGTGGGAGTACAGAGACGAG
 GACGGCCGGGAGACGCTGCAGACCATGGGCCCCCTCCACGGCACCATCACCGTTCTGGTC

FIGURE 1 (CONT'D)

ATCCCGGTGGGAGACACCCGGGTCTCACTGACGTACAAATACATGATCCATGAGGACTCA
CTGAATGTGACGACACAACAACGTCTTGAAGAGGACTCTGTGGTCTACGAGTGGGCCCTG
AAGAAGTGGTCTCCGTGCTCCAAGCCCTGTGGCGGAGGGTCCAGTTACCAAGTATGGC
TGCCGCCGGAGGCTGGACCACAAGATGGTACACCGTGGCTTCTGTGCCGCCCTCTCGAAG
CCCAAAGCCATCCGAGAGCGTGCAACCCACAGGAATGCTCCAGCCAGTGTGGGTACA
GGCGAATGGGAGCCATGTAGCCAGACCTGTGGGCGGACAGGCATGCAGGTGCGCTCCGTG
CGCTGCATTAGCCGCTACACGACAACACCACCCGCTCCGTGCACGCCAAGCACTGCAAT
GACGCCCGGCCGAGAGCCGCCGGGCTGCAGCCGCGAGCTCTGCCCTGGTCTGTGGCGA
GCCGGGCCCTGGTCCAGTGTCTAGTAACCTGTGGCAACGGCACCCAGGAGCGGCCAGTG
CTCTGCCGCACCGCGGACGACAGCTTCGGCATCTGCCAGGAGGAGCGTCTGAGACAGCG
AGGACCTGCAGGCTTGGCCCCCTGTCCCGGAAACATCTCAGATCCCTCCAAGAAGAGCTAC
GTAGTTCACTGGCTGTCCCGCCCGGACCCCGACTCGCCCATCCGGAAGATCTCGTCAAAG
GGCCACTGCCAAGGCGACAAGTCAATATTCTGTAGGATGGAAGTCTTGTCCCGCTATTGC
TCCATCCCAGGCTACAACAAGCTGTGCTGCAAGTCTGTAACTGTACAACAACCTCACC
AACGTGGAGGGCAGGATAGAGCCACCGCCTGGGAAGCACAACGACATTGACGTGTTTCATG
CCTACCCTCCAGTGGCCACTGTAGCCATGGAGGTGCGGCCATCACCAGCACCCCCCTG
GAGGTCCCTCTCAATGCCTCCAGCACCAATGCCACAGAGGATCACCAGAAACCAATGCC
GTAGATGAACCTACAACAATCCATGGCCTGGAAGATGAAGTCCAGCCACCAACCTAATC
CCTCGACGACCGAGCCCTATGAAAAGACCAGAAACCAAGAATCCAAGAGCTCATTGAT
GAGATGCGGAAGAAAGAGATGCTCGGAAAGTTCTAA

Gene 268. >ENST00000274609 cDNA sequence

ATGGATCCGCCGGCGGGAGCCGCTCGCCGCTGCTCTGCCCCGCGCTGCTGCTGCTGCTG
CTGCTGCTGCCGCCGCCGCTCCTGCCGCCGCCGCCGCCGCCGGAACGCCAGGCTCGCC
GCCGCCGCCGACCCCCAGGCGGGCCCCCTGGGGCACGGAGCGGAGCGCATCCTGGCGGTG
CCCGTGCCTACTGACGCCAGGGCCGCTTGGTGTCCACGTGGTGTGCGGCAGCTACGTCC
AGAGCAGGGGTACGAGCCCGCAGGGCCGCCCGGTCCGGACCCCGAGCTTCCCCGGAGGC
AACGAGGAGGAGCCTGGCAGTCACTCTTCTACAATGTACGGTCTTTGGCCGAGACCTG
CACCTGCGGCTGCGGCCCAACGCCCGCCTCGTGGCGCCCGGGCCACTATGGAGTGGCAG
GGCGAGAAGGGCACCAACCGCGTGGAGCCCCCTGCTCGGGAGCTGTCTCTACGTGCGGAGC
GTGGCCGGCCTAGCCGAAGCCTCCTCTGTGGCGCTCAGCAACTGCGATGGGCTGGCTGGT
CTGATCCGGATGGAGGAGGAGGAGTTCTTCATCGAACCCCTGGAGAAGGGGCTGGCGGCG
CAGGAGGCTGAGCAAGGCCGTGTGCATGTGGTGTATCGCCGGCCACCCACGTCCCCCTCCT
CTCGGGGGGCCACAGGCCCTGGACACAGGGGCCTCCCTGGACAGCCTGGACAGCCTCAGC
CGCGCCCTGGGCGTCTAGAGGAGCACGCCAACAGCTCGAGGCGGAGGGCACGCAGGCAT
GCTGCGGACGATGACTACAACATCGAGGTCTGCTGGGCGTGGATGACTCTGTGGTGCAG
TTCCACGGGAAGGAGCACGTACAGAAGTACCTGCTGACACTCATGAACATTGTCAATGAA
ATCTACCATGACGAGTCTTTGGGTGCCACATCAACGTGGTCTTGGTGGGATCATCCTC
CTGAGCTATGGAAAGTCCATGAGCCTCATCGAGATCGGGAACCCCTCTCAGAGCCTGGAG
AATGTCTGCCGCTGGGCCTACCTCCAGCAGAAGCCAGACACGGGCCACGATGAATACCAC
GATCACGCCATCTTCTCACACGGCAGGACTTTGGGCCTTCCGGCATGCAAGGCTATGCT
CCTGTACCCGGCATGTGCCATCCGGTCCGCAGCTGCACCCTGAACCATGAGGACGGCTTC
TCCTCAGCGTTTGTGGTGGCCCATGAGACTGGCCACGTGCTGGGCATGGAGCACGACGGG
CAGGGCAACCGCTGTGGCGACGAGGTGCGGCTGGGCAGCATCATGGCGCCCTGGTGCAG
GCCGCTTCCACCGCTTCCACTGGTCCCGCTGCAGCCAGCAGGAGCTGAGCCGCTACCTG
CACTCCTATGACTGCCTGCTGGATGACCCCTTCGCCCACGACTGGCCGGCGCTGCCCCAG
CTCCCGGACTGCACTACTCCATGAACGAGCAATGCCGCTTTGACTTCGGCCTGGGCTAC
ATGATGTGCACGGCGTTCCGGACCTTTGACCCCTGCAAGCAGCTGTGGTGCAGCCATCCT
GACAACCCCTACTTTTGCAAGACCAAGAAGGGGCCCCCTTGGACGGGACTATGTGTGCA
CCTGGCAAGTTCAAGCCGGGCGCGGTGGCTCATGCCTGTTATCCAGCACTTTGGGAGGC
CAAGGTAGGTGGATCGCCTGA

Gene 269. >ENST00000331699 cDNA sequence

ATGGGCCAGAATATTTCTCTTCTGTGTATAAAGGGGAGATTAGGCCTGGAACCTGGGC
ATGGCCGTGGATGCGTGGAATGAGGAAGGAAAGGCGGTCTGGGGGAGCAGCAAGCTGGTG
TGTAATAAGCCGATCCCTTGCCAGCCACACACTTCTGGAACAATGAGAACGGCAACAAG

FIGURE 1 (CONT'D)

TACAGGAAGGCGTATTTCTCCAAATTCCAGGTATCAGGGCTCATGGCGACTGCTGCAGC
ATCAACCCGAAGACCGGGGGCGTCATCATGCTCGGCTGGAGGCCCGATCCTGCACTGAGG
GGCCCCCTGTGTGAATGTGTGCCCTCTCCTGTCTCCACAGTGGACTCCTTTGAGGAGGTG
GAGGACAGCCTGTATGTCCCCAGTATAACAAGTACGGGGAAGAGAGGGTGATCGTCTTC
CTGAAGACAGCCTCTGGGCACGCCTTCCAGCCTGACTTGGTGAAGAGGATCTGTGACGCC
ATCCGCGTGGGCTTGTCTGTGCGGCATGTGCCAGCCTCATCCTGGAAACCAAGGGCATC
GCGTACACGCTCAGTGGCAATAAAGTGGAAGTTGCCGTCAAACAGATCATCGCTCGAAAA
GCCATGGAGCAACGAGGTGCTTTCTCGAACCCGAGGCCCTGCATCTGTACTGGGACATC
CCTGAGCTGAATGGCTTCTGA

Gene 270. >ENST00000303127 cDNA sequence

ATGGCGGCGGAAGGCTGGATTTGGCGTTGGGGCTGGGGCCGGCGGTGCCTGGGAAGGCCT
GGGCTTCTCGGCCCCGGCCCTGGCCCCACTACACCTCTCTTTCTTTCTTTTGTGTTGGGG
TCTGTGACTGCGGATATAACTGACGGCAACAGTGAACATCTCAAGCGGGAGCATTGCTC
ATTAAGCCCTACCAAGGGGTGCGTTCCAGCTCTATGCCCCCTCTGGGACTTCCAGGGCAGC
ACTATGCTCACGAGCCAGTACGTACGTCTGACCCCTGACGAGCGCAGCAAAGAGGGCTCT
ATCTGGAACCACCAGCCGTGCTTCCCTCAAAGACTGGGAAATGCACGTCCACTTCAAAGTC
CACGGCACAGGGAAGAAGAACCTCCATGGAGACGGCATCGCCTTGTGGTACACCCGGGAC
CGCCTCGTGCCAGGGCCTGTGTTTGAAGCAAAGATAAATTCCACGGCTTAGCCATCTTC
CTGGACACCTACCCCAATGATGAGACCACTGAGCGCGTGTTCCCGTACATCTCGGTGATG
GTGAACAATGGCTCCCTGTCTACGACCACAGCAAGGATGGGCGCTGGACCGAGCTGGCG
GGCTGCACGGCTGACTTCCGCAACCGCGATCACGACACCTTCTGGCTGTGCGCTACTCC
CGGGGCCGTCTGACGGTGATGACCGACCTGGAGGACAAGAACGAGTGAAGAAGTGCATT
GACATCACGGGAGTGCGCCTGCCACCGGCTACTACTTCGGGGCCTCCGCCGGCACCGGC
GACCTGTCTGACAATCATGACATCATCTCCATGAAGCTGTTCCAGCTGATGGTGGAGCAC
ACGCCCCGACGAGGAGAGCATCGACTGGACCAAGATCGAGCCAGCGTCAACTTCTCAAG
TCGCCCAAAGACAACGTGGACGACCCACGGGGAACCTCCGCAGCGGGCCCTGACGGGG
TGGCGGGTGTTTCTGCTGCTGCTGTGCGCTCTCCTGGGCATCGTTGTCTGCGCCGTGGTG
GGGGCCGTGGTGTTCAGAAAGCGGCAGGAGCGGAACAAGCGCTTCTACTGAGTGGCGCCT
CCGGCGGGGCCTGTCCCTGGGCCCAGGAGCCAATGTGAACTTTTTTTTTTACCGGGATTA
TAAAAGAACAACAAGATGACCTTATTTCTTAACTGTTTCAAATAAATGATTAAAGTATTT
TCATACATTTTGTCTTCTTGGCCAGCAGGGACAGGTGGCAGAGCCGAGGCTTAGGGTCTGG
CACCCCCACAGCTGGAGACGGAGGCTCTCCTGGGGCTGGTGTCTCAGGAGCAGGGGTCT
GTGTCTACAGATGGGCTGTGGCCCCCTGCAGGCAGCTGTTGAACACTGGAGGGTCCCCCGG
ACCACACTGGGGTGGGCTCCTGAGGAC

Gene 271. >ENST00000303066 cDNA sequence

GGTAGTGAGCGGTGTTTTCAGGATGTGAGGGCCCGCAGGAGCCGAGTCAGGCTCTCTCCAC
TGCTTGCCTGCCCGCCACCGTGCAAGCTCTGGCCGGCGCTGCCACAGTCCCCATGGTGGGCAG
CCCCCGCGGGCGGGGACCCCTGATCGGCAGCGGCATGCCAGGGAAGCCCAAGCACCTGGGC
GTCCCCAACGGGCGCATGGTTCTGGCTGTGTGAGATGGAGAGCTGAGCAGCACGACGGGG
CCCCAGGGCCAGGGCGAGGGCCGCGGCAGCTCTCTCAGCATCCACAGCCTCCCCAGTGGT
CCCAGCAGCCCCCTTCCCAACCGAGGAGCAGCCTGTGGCCAGCTGGGCCCTGTCTTTCGAG
CGGCTGTTGCAGGACCCGCTGGGCCTGGCTTACTTCACTGAGTTCCTGAAGAAGGAGTTC
AGCGCGGAAAACGTGACTTTCTGGAAGGCCTGCGAGCGCTTCCAGCAGATCCCGGCCAGC
GATACCCAGCAGCTAGCTCAGGAGGCCCGCAACATCTACCAGGAGTTCCTGTCCAGCCAG
GCGCTGAGCCAGTGAACATCGACCGTCAGGCCTGGCTTGGCGAGGAGGTGCTGGCCGAG
CCCCGGCCGGACATGTTTTCGGGCACAGCAGCTTCCAGATCTTCAACTTGATGAAGTTCGAC
AGCTATGCGCGCTTCGTCAAGTCCCCGCTGTACCGCGAGTGCCTGCTAGCCGAAGCCGAG
GGACGCCCTCTGCGGGAACCTGGCTCCTCGCGCCTCGGCAGCCCTGACGCCACGAGGAAG
AAGCCGAAGCTGAAGCCCGGGAAGTGCCTGCCGCTGGGTGTGGAGGAGTTGGGGCAGCTG
CCACCCGTTGAGGGTCTGGGGGCCGCCCTCTCCGCAAGTCTTCCGCCGGGAGCTGGGC
GGGACTGCAAACGCCGCTTTCGCGCGAGAGTCTCAGGGCTCCCTCAACTCCTCCGCCAGC
CTGGACCTTGGCTTCTTAGCCTTTCGTGAGCAGCAAATCTGAGAGCCACCGGAAGAGCCTT
GGGAGCACGGAGGGTGAAAGTGAAAGCCGGCCAGGGAAGTACTGCTGTGTGTACCTGCCC
GATGGCACAGCCTCCTTGGCCCTGGCCAGACCTGGCCTCACCATCCGAGACATGCTGGCA

FIGURE 1 (CONT'D)

GGGATCTGTGAGAAACGAGGCCTCTCTCTACCTGACATCAAGGTCTACCTGGTGGGCAAT
 GAACAGAAGGCCCTGGTCTGGATCAGGACTGCACCGTGCTGGCGGATCAGGAAGTGC GG
 CTGGAAAACAGGATCACCTTCGAGCTGGAGCTGACGGCGCTGGAGCGCGTGGTACGAATC
 TCAGCCAAGCCCACCAAGCGGCTGCAGGAGGCGCTGCAGCCCATTCTGGAGAAGCACGGC
 TTGAGCCCCTAGAGGTGGTGTGCACCGGCCAGGCGAGAAACAGCCTCTGGATCTGGGG
 AAGCTAGTGAGCTCGGTGGCGGCCAGAGACTGGTTTTTGGACACTCTTCAGGTGTGAAG
 ATCTCCAAAGCCCGTGACAAATCTCCCTGCCGAGCCAGGGCTGCCACCTAGAACTCAG
 GATAAGGCCACCCATCCCCCTCCAGCGTCCCCCAGTTCTCTGGTGAAGGTGCCAGTAGT
 GCCACTGGAAAGCGGCAGACCTGTGACATCGAAGGCCTGGTGGAGCTGCTGAACCGGGTG
 CAGAGCAGCGGGGCCACGACCAGAGGGGCCTTCTGAGGAAAGAGGACCTGGTACTTCCA
 GAATTTCTGCAGCTGCCCCGCCAAGGGCCCAGCTCCGAGCCCACCAAGACCAAATCAGC
 AGCCCAGCCCATCGGGGGATCCTTGAACTCCACCACCGACTCAGCCCTCTGACAGCTACC
 CAACAGTCCAGGACAGCTGCATGGCACC CGGCGGGCCGAGCATGCCATGGGTCCGCTCTG
 CATGCCCTGTCTGTGCCATGAGTGTCCCTGGCCCCCTTCTGCCATGGGCAGGCCCCGAGG
 AAGAGCCGGTAGGGGTGGAAAGGGGACTCAGATGAGACACACCCACAGCTGCCACCGCC
 TTGTCCCTCAACAAGCTCACCCCCAATCCCTTGAGCCAGGCCACAATGGGGGAGGTGAG
 TCCAGCCCCCTTGAAACAGGCTTGCCCAACATGGAGGGATGGCGTTGGCAGTGCCAGCCTC
 CCCAGCCTGTGCCAAGCTTCAACAGGGGCAAGAGGAGGGGCCGGCCCCCTCCTCAGGAAGC
 TGGTATGAGTAAGGCCTTGAGGGTGCAGGCAGGCAGCCCTGTACCCACCCACATAGACT
 ATACTGTACATACAGATTTTGCAGTAGGCTTGGGGCAGCTGGGTTTGTCTTGATGTATG
 ATACTGTTATTATAATAATTATTATTATTCTGC

Gene 272. >ENST00000303165 cDNA sequence

CTCCGGCCGGCCACCCTAGGCCGGCCCCGCCAGCTGTGCGCCGACATGGAACCTTGGCC
 AGCAACATCCAGGTCTGTGCTGCAGGCGGCCGAGTTCTTGAGAGCGCCGTGAGAGAGAGGCC
 GAGCATGGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCATCCACAGGAGGAAG
 AAGCGACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGGTGAGTGCACAATGAACTG
 GAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCTGAGAGCGGCTGAAGCAGCAGATGCCC
 CTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCAC
 ATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCCGACAGCTCAAGGAGAGGCTGCGCAGC
 AAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAG
 CGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCCTCTGAGCGCTCAGAC
 TCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTGGGGGTGAGGCCGAG
 CTGCTGCGGGGCTTCGTGCGCGGCCAGGAGCACAGCTACTCGCACGGCGGCGGCCTGG
 CTATGATGTTCTCACCAGGGCGGGCCTCTGCCCTCTACTCGTGCCAGGCCCACTTGCC
 AGGCAGGAGCCCTCCCCAAGCCTTCAGGGCTGCTCGGAGTCACTGTGGAATGGACTAA
 AAGGACCCTTGTGTGGGAACAGGTGCTCCCCAAACACCCTGCTGCTGGCTGCCAGGCAGG
 CCTCTGGAAGGGAAGGGGAGGACTCATCAGGACCTCCCTGGACCCCTGCAGGGCAGGC
 AGCTTGGGCCCCGAGCCCAAGCATTTGGCTCTGCTGCCCCCAAGGGGACAGGAAGCCTCTT
 GGGCCTCTTCCCTTCTGACAAAGGCCCCCTGCCTTTGCCTCACATAAACTGTACAGTAT
 TTTCATTAAAAGCCTCTTTTCAT

Gene 273. >ENST00000303182 cDNA sequence

ATGGAACCTTGGCCAGCAACATCCAGGTCTGTGCTGCAGGCGGCCGAGTTCTTGAGCGC
 CGTGAGAGAGAGGCCGAGCATGGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCC
 ATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGGTCA
 GTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTG
 AAGCAGCAGATGCCCCCTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGC
 CGTGCCAGGATGCACATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAG
 GAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTG
 GCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCC
 TCTGAGCGCTCAGACTCAGACCAAGTCTTGCCCTAATGAAAACGGGGGAACTCCCAACCAC
 AGACCCACTGGCAGAGGAAATAATATCAGTTCCCATCACTGACACTGTTGGCCGTGCCAG
 GCAGTGCACTTAATTCTCACAACCTGAGGCTGTTCTGTCTCACTTCACGGATGGTAGAA
 ATGAGGCTGAGTGACGTGACTCGCCTGAGGTCCAAAAACAGTGAAGCCAAGATTCAAACC
 AGAGCCTTCCGACTCCAGAGCTGGGGCCAACTGAATTCAACAAGTATTTATTGAGTGTCT

FIGURE 1 (CONT'D)

ATTATGTGCTAGATACTAGACACATCAGAGAACAAACGCCCTGCCCTTGTTCGG
GCTTACAGTCTAGCACTTACCGCAGTTAACCCTGCAGGCTACCTGGAGCCCCGGGCAAGT
CACCGCACCTCTGTGCCTCGGTCTCAGCTGCCAATGGGAGAATAAGCAGACCTGGCTC
AGACATGAATCATGTGCTTGGTGTACTGCAGATGCCAACTGCATCCCCACAACCCACCA
CGTAGACAGCAGACAGGGCTGGAAGTTGATTTTAAATGATAAAGTACAATGAAGGGAGGG
CAGAGGGGCTAAGCCTAGCTGTCTGGGGTGTCTGTGGTGGTGGTAGACTGGCTACACAAAC
TGTTGCTGCTGCTGCTGCTTCTTGGTGGCCGCCCTTGTCTGGCGAGGTCCCTTGGCCTTCTCT
GTAGCTGCCAGTGCCGTCTCCTTTGCCCTTCTCCTTGGCTTCCCTTGGCTGTCTCAACAAGT
GTTTTGGAAGGGGCTCGCCTGTCTCGGAACGGCAGGTGGCTGCCCTTTAGAAGATGCCTGA
AAGACCAACCTAATTTCCCTCCCCCATGACACCAATCTCCTCTGGGCCAGGCTCCACTAA
AAAGGTGGTATTACCCCTCCTCCACCCCCAGTACAGACAAGGAGTCCCAGCTCAGAGCA
GGGCAATGACTAACCAGACTCCACGCCCGCTAGGCTGAATGAGCCTCTCCCATAGAGGA
ATATCCACATACCCAGAACTCACCTTGCAGCTTAGCCAAGATATATTCAAACCCCTTCA
TAGTCTTGGTCACGTTGCTTTTGAACCGGGCAAGACCAAATTCCTGGCATGAGATGAGAA
TGGGAAGGATACTGAGTTGCCCACTGACCCCAGCCCAGCCCCAACACCGAAAGCACTGGG
TCCCAGAGCCCCAGCAGCCCCAACAACTGCTCACCTGGACAGCTCTGGAGACACCAA
TAAGCTAGAGGAGACCCAGGCTTCCCGGCGGATTTCACTCCAGCCACTGTTGTCTCAGAGTT
CACACAGTAAACACATCGTTTCTCCACCACCTATGCAGAGGCCAACCACAATCGTGGAAC
AGTCTTTTCATTTTGCCAACTTGCACATAAATCTGACTCCCTGTCACTTTTTCATGAGGCGA
AGCAATACAATGAAAATCCATTCTTCCCTGACTGCACCTCCAAGTGGCACTGACAGAA
CAAGAAGCCATAAATAAGGTCTTTTTGCTCTCGAAAACCTCTCTTCTGACTCTTAAACTA
GAAGGCAAAAGGTCTCTCTCTTGGAGATCAACAAAGGGCCTTCCAGCCCATCTCTGCTCCTG
GATTTTTGTTTTGTGTCATCTAGACGCATGCAGTGTTTTAGCCGCCCTTCCACCAGCTGCAGC
TCTGGAGCTTCTGACAGTCCAAATAAAAAACATTTGCCCGG

Gene 274. >ENST00000303204 cDNA sequence

CGCGCGCGGCGCGGACAACTCATGGCGGCGGGCGGGCGGGCAGCTGCTTTGGGCGCGGTG
CGGTGGTGA CTGAGCTACGAGCCTGGCGGGCGGGTGTGCGCCGAGCCCCGGCCCGCCGG
CCCTCGCGTGCCTCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGTCTGAGCCCGCTTCG
GCCGGGACGATGGTGAAGTATTTCTGGGCCAGAGCGTGCTCCGGAGTTCTTGGGACCA
GTGTTTCGCCGCCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAA
GACATAGTACACCGGGAGGTGACCCCTGACCAGAAACTGCTGTCCC GCGGACTCCTGACC
AAGACCAACAGGATGCCACGCTGGGCGGAGCGACTATTTCTTGCCAAATGTTGCTCACCTCG
GTGTACGTCTTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC
TGGAACATCAACCACGCGCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGAAC
TCTGACAACAGTGGCTGGACTGAAATCCGCGCGGAAGCCTGGGTCTCCTCTAGCTTATTT
GGTGTCTCCAGAGCTGTCCAGGAATTTGGTCTTGCCCGGTTCAAAAGCAACGTGACCAAG
ACTATGAAGGGTTTTGAATATATCTTGGCTAAGCTGCAAGGCGAGGCCCTTCCAAAACA
CTTGTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGACGGCACTGGCAGCTACA
GAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAACAG
TTTGTGTAGCCAGTCTACCACCACCACAGCACCCCAGACAGCTAGGCTTAGCCCCCTCTGC
CCTCCCTTCATTGTACTTTATCATTAAAAATCAACTTCCAGCCCTGTCTGCTGTCTACGT
GGTGGGTTGTGGGGATGCAGTTTGGCATCTGCGACTACCAAGCACATGATT CATGTCTG
AGCCAGGTCTGCTTATTCTCCATTGGGCAGCTGAGGACCGAGGCACAGAGGTGCGGTGA
CTTGCCCGGGGCTCCAGGTAGCCTGCAGGTTAACTGGCGGTAAGTGCTAGACTGTAAGCC
CGACAAGGGCAGGGCTTTTGGTTTTGTCTCTGATGTGTCTCAGTATCTAGCACATAATA
GACACTCAATAAATACTTGTTGAATTC

Gene 275. >ENST00000312855 cDNA sequence

ATGGCGGCGCGGAGGTCTGAACTGCATCATGGAGGTGTCTGTGGCCAGGCGGAAAGC
AGCGAGAAGCCGAACGTGAGGGCATGACGTCCAAAGATTACTACTTTGACTCCTACGCC
CACTTCGGCAACTCCATGTTTTCAAAACCGCCACCTCTTTAAAGACAAGGTGGTGTGGAT
GTGGGCTCGGACACAAGCATCCTCTGCATGTTTCGCCGCCAAGGCCGGGCGCAAGGTCATC
GGCATCGAGTGTTCCAGTAGCTCTGATTATGCGGTGAAGATTGTCAAAGCCAACAAGTTA
GACCACCTTGGTGACCATCACCAAGGGGAAGGTGGAGGAGATAGAGCTCCCGGTGGAAG
GAGGTAGACATCTACACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCGTTCTGCCTG

FIGURE 1 (CONT'D)

CAAGTGAAGCAGAATGACTACGTGCACACCCAGGTGGCCTACTTCAACATCGAGTTTACG
CACTGCCACAAGAGGACCGGAGGGACCGGCTTCTCCACCATAACCGAGTCCCTGTACACG
CACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCTTGAAGACGGGCGAGGAG
ATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACTGGGACCGGGACTTCACCATC
AACCTAGATTTTCAGGGGCCATCTGTGCGACCTGTCTGCTCCACAGACTACAGGATG

Gene 276. >ENST00000303270 cDNA sequence

GCGGGAGTCGCGGCGCTGCGGGTAGGAGCCGGGTTGCGGGAGACCCAGGTTTCGGTTGGG
ATTCCCAGCCAGAACGGAGCTTAAGCCGGGCAGGCGAGCGAATGACGGAGTAGCGAGCTG
CACGGCGGCGTGCTGCGCTGTTGAGGACGCTGTCCCGCGCGCTCCAGGCCGCCCCGAGG
CTTGGGGTCTTTCGAAGGATAATCGGCGCCCCGGGGCCGAACAGCGGGGGCACACGGGGCGC
TGCCGAAGTGCAAGGCCACGGCCAGAGCTCGAGCCCCGACGCGCTGTCTGGAGTCGTAGGT
TGGCGCCGTTTGGGGTTCGGGGTCTGAGGCTTGGGCGCTGCCTGGGCCGAGCGGAGATCGG
GGTTTGCCTCCCGTCCCGCTCAGGACCTGACGTGGCTGAAGCGGCCCGGGAGCATGA
GCGGGCAGCGCGTGACGTCAAGGTGGTGATGCTGGGCAAGGAGTACGTGGGCAAGACTA
GCCTGGTGGAGCGCTACGTGCACGACCGCTTTCTGGTGGGGCCTTATCAGAACACCATCG
GGGCCGCTTCGTGGCCAAGGTGATGTGCGTCCGAGACCGGACTGTGACATTAGGTATTT
GGGACACAGCAGGCTCTGAGCGCTATGAGGCCATGAGTAGAATCTACTATCGGGGTGCCA
AGGCTGCCATCGTCTGCTATGACCTCACAGACAGCAGCAGCTTTGAGCGAGCAAAGTTCT
GGGTGAAGGAACTGCGCAGCCTAGAGGAGGGCTGCCAAATCTACTTATGTGGCACCAGA
GTGACCTGCTGGAAGAAGACCGGAGGCGTCGACGTGTGGACTTCCACGACGTCCAGGACT
ATGCAGACAATATCAAAGCTCAGCTCTTTGAAACATCCAGCAAGACAGGCCAGAGTGTGG
ACGAGCTCTTCCAGAAAGTGGCAGAGGATTACGTCAGTGTGGCTGCCTTCCAGGTGATGA
CAGAGGACAAGGGCGTGGATCTGGGCCAGAAGCCAAACCCCTACTTCTACAGCTGTTGTC
ATCACTGAGTCAGCACTCACCTGGCCTGGGGGAATTAAAGGAATTCCCCGTAAGGGCTGG
ACCCAGCTCCTTTCTGGGCTTGGGTAGTCAAATGTCTGAGCTACCCAGGTCCTCATGTC
AGCAGAGTGGCGCCTGCCTGTGCTGGCCCATGGAACGGAGACAGCATTGGGCTGACTGTG
GGCATGAGGAGGGATAAGGCTGATTTGGACCCAGGCTTCTGCCCTGGACAGCACTTGTG
TCTGCAGATTATTTAAGTGGCTTTTGATCTGTAAATAAAATCAGTGCAGTGTGAATCACA
CCCAGCCCCCTTTCCCTGCTGTGTGGATTAGGTGTCAAGACACCTAGTTCTTTCTGGGGCC
ACCCGGCTGGCCTCACTGCTTATATTAAGGCTCCTCCCAACTCTCATTTTCTTTGGAAA
ACAAGACTTTTTTCCCATGGTTACCGCTGAGATACTGGGGCTGTAGTAGTATAAAAGCT
CACAGTTCTTCTGAGTGCTGAAAAGAGTGATGAGTTGCTTCGAAATAAAAGGGTCAAG
CATT

Gene 277. >ENST00000306591 cDNA sequence

GCCGAGACCTCAGTTCCCGGCGGCTCTTGCGGGGCACAGGTGAGCCCTGGCTGCGCGCGC
GGCCCCCTCCTCCCGGCGCCTCCAGATGGGGGCTCCGGAGGTGGCGCCAGGCTCTGAG
CTACCCTAGGTCTGCAGACTAGCGGGCATTGGCCAGAGACATGGCCAGCCACTGGCCTT
CATCCTCGATGTCCCTGAGACCCAGGGGACCAGGGCCAGGGCCCCAGCCCCCTATGATGA
AAGCGAAGTGACGACTCCTTCCAGCAGCTCATCCAGGAGCAGAGCCAGTGCACGGCCCA
GGAGGGGCTGGAGCTGCAGCAGAGAGAGCGGGAGGTGACAGGAAGTAGCCAGCAGACACT
CTGGCGGCCCGAGGGCACCCAGAGCACGGCCACACTCCGCATCCTGGCCAGCATGCCAG
CCGCACCATTGGCCGCAGCCGAGGTGCCATCATCTCCAGTACTACAACCGCACGGTGCA
GCTTCGGTGCAGGAGCAGCCGGCCCCCTGCTCGGGAACCTTGTCCGCTCCGCCTGGCCAG
CCTCCGCCTGTACGACCTGGAGCTGGACCCACGGCCCTGGAGGAGGAGGAGAAGCAGAG
CCTCCTGGTGAAGGAGCTCCAGAGCCTGGCAGTGGCACAGCGGGACCACATGCTTCGCGG
GATGCCCTTAAGCCTGGCTGAGAAACGCAGCCTGCGAGAGAAGAGCAGGACCCCCGAGGGG
GAAGTGGAGGGGCCAGCCGGGCAGCGCGGGGTCTGCTCCTGCTGTGGCCGGCTCAGATA
TGCCTGCGTGCTGGCCTTGACACAGCCTGGGCCTGGCGCTGCTCTCCGCCCTGCAGGCCCT
GATGCCGTGGCGCTACGCCCTGAAGCGCATCGGGGGCCAGTTCGGCTCCAGCGTGCTCTC
CTACTTCCTCTTTCTCAAGACCTGCTGGCTTTCAATGCCCTCCTGCTGCTGCTGCTGGT
GGCCTTCATCATGGGCCCTCAGGTGCGCTTCCACCCGCCCTGCCGGGGCCCTGCCCCCGT
CTGCACAGGCCTGGAGCTCCTCACAGGCGCGGGTTGCTTCACCCACACCGTCATGTACTA
CGGCCACTACAGTAACGCCACGCTGAACCAGCCGTGTGGCAGCCCCCTGGATGGCAGCCA
GTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCTGGCCTACCTCTCCACTGT

FIGURE 1 (CONT'D)

GGGCGTGAGCTTCTTTATCACCTGCATCACCTGGTGTACAGCATGGCTCACTCTTTCCG
GGAGAGCTACCGGGTGGGCAGCACCTCTGGCATCCACGCCATCACCGTCTTCTGCTCCTG
GGACTACAAGGTGACGAGCAGAAGCGGGCTCCCGCTCCAGCAGGACAATATTGACACCCG
GCTGAAGGAGGGTGAGGACAAAATCTTCTTAATCAACAAGCTTCACTCCATCTACGAGAG
GAAGGAGAGGGAGGAGAGGAGCAGGGTTGGGACAACCGAGGAGGCTGCGGCACCCCTGC
CCTGCTCACAGATGAACAGGATGCCTAGGGGGACGGCGATGGGCCTCACGGGCCCGCCCA
GCACCCTGAGACCACACTGTTGCCTCCAGTGACCCTGCTGGGACACCAGGACAAGGAAG
ACAGTTTCGCCTCTCGAAAGCCGAGCTGCGCCTAGGCTGGAGCTGGAAGGGTGGGTGAA
TCCGGCTTGGGCATCCCCAATGAACTCTGCCCTGCCTGGGACTCTATTTATTCTGATTAA
AGGGGTTTTGCAAATGGGCTTGTCCCTTGGGGCTCTGTGTCTGTGACCACACCGGGGCC
TGCTTCCCGCTGCCCTGGGGCCACCTCCAGGCGCAGGTCTGGGTCTGGGAACCTCAGCT
GGAGTGGGGGCGCCCTCTGCTGGCCAAGCCCCAGATGGCAGGGGCTGGACCGCGCCAGGG
CTTGATTGCTTGTGCTGCTTTGACCAGCCTGAACTCGCGCCAGGAGGGGCTTACACCTG
CACAAGTGAGCCGAGCAGGCACGGATTGTGACCAGAGCGATGCGTCAACCATTGGGTGAT
GCTGTAGCATCTACTGGAGCAGGAGACAAATTTAGAGAGGGACTTGGAGGGGAGACATAT
CAGTTGCAAATGAGTTGTGGGGACAGTTGCCTCCAGGCATAGGTAACCAGCACCTGTGC
TTGGAGGCGAACAGGGCTTGGTGAGGTGGGGCTGGCCCCCTGCTTCTGGCTGCCAGCAGC
TGGCTGGGGGGTGGTGATCCTGGGTCTGACTGGGCTGAGTTTGAGGAGCCCGTGGGATAC
CGAAAACCGTAGGCTGTGGGGGGTGGGCACAGGGATTGGGGACAGCCCGTCATGACCC
CGTGCTCCAGGTCTGCAGGGACAGCCCATGACAGCCAGGGCTCCAGGTCTGCGGGGAC
CAGCCCATCACAGCCAGGGCTCCAGGCCTGCGGGGACAGCCCGTCAGCCTCAGTTCTC
CAGGCCTGCGGGGACAGCCCGTCATGACCCAGTGCTCCAGGTCTGTGGGGACAGCCC
GTCAGCCTGTGCTCCAGGCCTGCAGGAACAGCCCGTCAGCCTCAGTGCTCCAGGCCTGC
GGGGACAGCCCGTCAGCCTGTGCTCCAGGCCTGCGGGGACAGCCCGTCATGACCCAG
TGCTCCAGGTCTGTGGGGACAGCCCGTCAGCCTGTGCTCCAGGCCTGCGGGAACAGCC
CGTCATGACCCAGTGCTCCAGGCCTGCGGGGACAGCCCGTCATGACCCAGTGCTCCA
GGTCTGTGGGGACAGCCCGTCACGGCGCAGGGTTCCAGGCTTGTGGGGACAGCCTGTC
ACAGCCAGGGCTCCAGGCCTGCAGGAGCTGCGCTTGGGATTGGGGGAATGAACCCAGGT
GGGGAATGGTCAAAGAGCGATGGGGCCAGAAAAGGGTCAGACCCAGATGGAGATGCCAC
TGGCTGCTAGCAGACCCCCACGCTGGGTCTAGCCCAACCAATCCCATGGGGATGCTCCTG
TGCTCTGCAGACATCTGGGTGCTGCCACAGGGGCCCCGACAGAGTTGGCATCTGGGTGGAT
CTGAGCCAAGTGGTGCTTCTGGGCCTCAGCAAGTAGCTGGTGCTGATTCTGGGCAGCCAA
CTGTGGCAGCATCTTCAGGTGCGAGTGCTGCTGGGTGAAGCTGCGTGGGCAGTCCAGAAA
GTGACGTGACAGTCCACAGGGACCGACGTAGGGTTTTCCAGCCCTATCTGTGCAGATGCT
GTCCTCCAAACCATCACGGTCCCTCTCTGGCTGGGGACGTGCGCCTGCCACTGCTGGCTT
GCCAGCATGATCATTGGTTGTGACCTGTTGAGCCCATCTTGCCAGCCTCACAAAGGACAG
TACTAGCTGCTTATGACAGGAAAGTGAAGAACTTGGCCTGGATATTTCTGGAGAATTAC
CGTGTGTGCTAGTCAGTCTTTCTGTGTCAACCAGGCCAGGCTGTGGGGCCAGTGATCTCA
TCGAGAGGGGCCGAGGTGTTGCTGTGATCGTGTGCTGCTGGAATGTGGTGAACACCTACA
GTCGATTTTACCTAAAGATCATCCTTGAGAATGTGGGTGGGCCTCATCCTATCAGCTGAA
AGCTTTAAGAGCAAAACCCGAGGTGTCCAGAGAGGGAATTCTGCCTTGAGACGGCGGCT
TCCCACTCCCACTGGATGTCCAGCCCGCGGCCCCACGGCTGGGTGAGCCCGTCCTCTCCT
CGTTTCTGTCTCCGGACCCACCGTGTGGCCCCAGACCCTCCAGTGAGGACCTCCCGTATT
TCTTCAGAGCAGCCCTTGCCTGCTGGAGGCCTGGGCTTCAGTGTGTCCCTGGGTGCCCTG
GGGCATGTTCTGTGACCTCCAGCTCCTCGCCTCATGGGGCCGCTGTATCAAGTGACACA
GTTTGTGTGCTGCGTACCATGCCTGGCACCCATTTGAGGTGTTGCAAGGAGGCCATGTTT
GCTCGATGAGAGCAGCCTAAGATCTACAACTGTTGTTGAGTGGATGGGAACCTTGATGC
TATTTTCAGGCTGAATGACAAGACTCCGCGATGCTTCTCGGCCTGGGCTGCACAACGGAA
TCTACCAGGGAGGTTTTAAAAACACTGGTACTTGCTGGAGGTGGTGGCGCCTGTCTGTAA
TTGCAGCTGCTCCAGAGGCTGAGGCGGAGGATTGCTTGAGCCCAAGAGTTTCGGTTTATT
TGCTTTTTTCAGAGTCTTG

Gene 278. >ENST00000307832 cDNA sequence

ATGGGAAGTTTCAACACCAGTTTGAAGATGGCTTCATTTTGGTGGGATTCTCAGATTGG
CCGCAACTGGAGCCCATCCTGTTTGTCTTTATTTTATTTTCTACTCCCTAACTCTCTTT

FIGURE 1 (CONT'D)

GGCAACACCATCATCATCGCTCTCTCCTGGCTAGACCTTCGGCTGCACACACCTATGTAC
TTCTTTTCTCTCTCATCTGTCCCTCCTGGACCTCTGCTTCACCACCAGCACCGTGCCCCAG
CTCCTGATCAACCTTTGCGGGGTGGACCGCACCATCACCCGTGGAGGGTGTGTGGCTCAG
CTCTTCATCTACCTAGCCCTGGGCTCCACAGAGTGTGTGCTCCTGGTGGTGATGGCCTTT
GACCGCTATGCTGCTGTCTGTCTGTCCACTCCACTACATGGCCATCATGCACCCCCATCTC
TGCCAGACCCTGGCTATCGCCTCCTGGGGTGCGGGTTTCGTGAACCTCTCTGATCCAGACA
GGTCTCGCAATGGCCATGCCTCTCTGTGGCCATCGACTGAATCACCTTCTCTGTGAGATG
CCTGTATTTCTGAAGTTGGCTTGTGCGGACACAGAAAGGAACAGAGGCCAAGATGTTTGTG
GCCCCAGTCATAGTCGTGGCTGTTCTCTGCAGCACTTATTCTAGGCTCCTATGTGCACATT
GCTCATGCAGTGCTGAGGGTGAAGTCAACGGCTGGGCGCAGAAAGGCTTTTGGGACTTGT
GGGTCCCACCTCCTAGTAGTTTTCTTTTTTATGGCTCAGCCATCTACACATATCTCCAA
TCCATCCACAATTATTCTGAGCGTGAGGGAAAAATTGTTGCCCTTTTTTATACATATAATT
ACCCCCATTCTCAATCCTCTCATTTATACACTAAGAAAACAAGGACGTGAAGGGGGCTCTG
TGGAAAGTACTATGGAGGGGCAGGGACTCAGGGTAG

Gene 279. >ENST00000332144 cDNA sequence

GGAGGGGCGCTGTGAAAAAATGGTTAATGTGAAGAAAAAGTAAATTCCTATGAAGCTGATGTG
CTTCGACAAGAAGTAGAAAAATCATTATAAGCTCTCTTCACCTGAAGATTCCGATCGTTTC
TGGAAGTTCTTTGAAGAACTTGATCCTGAAAAAGCCAGCTGATCTTTCTGCAAGCCTCGGA
CTTCAGTTAGGTGGTCCTTATGATATCCTTGCTGGAAAAACATAAAATTAAGAAAAATTC
ACAGGCCTGAATGTTAGCCTTCATTGGAGGTTTTACCATGATCCTCCTGAGTTCCAGACC
GTCATTATTGGAGATAATAAACTCAGTACCACATGGGGTATTTTCAGGGATTCTTCTGAT
GAACCTTCCTGCATATGTTGGTATAAATGAAGCAAAGAAAAAGTGACAAATTGTTCCAAAT
GGAGATAATGTATTTGTGGCAGTCAAATATTTTTGATGAAAAAACTTAAAGAAGTAACG
CATAAAAAGAAAACTAATCTCTTGAAAAACATAGATGAAAACTCGCAGAAGCAGCCAGA
GAAATGGGGTCCTCACTGGAACAGACAACCACGAAGATGAAAGATAAGAAAGTTGTGACG
AAGGCCTTTTCATGGTGAGGCTTGGCTGTTCCAGCAGATAAAAAATGATGTTGGGTACAGA
GAGCTCCCTGAAACAGATGCTGACGTCAACAGAATTTGCAAGACAATAGTTGAGGCTGCA
AGTGAGGAGAGACTGAAAGCTTTTGTTCCATTTCAGGAAATGATGACTTTTCGTGCAGTTT
GCTAGTGATGAATGTAATTGTGGGAAGGGGCGTGAGTTGGGAATGGAGCTCTTTTGCTGT
GGCTCACATTATTTTCATAAAGTTGCTGCTCAGCATTACCTCTTGCAATATAATCTGTTG
AAGAGGAATCTGGAAATTATTGAGGATCATTTGGCAAACAGAAGTAAAGAGAACATAGAG
CAACTTGCTGCATGA

Gene 280. >ENST00000274820 cDNA sequence

[illegible]

FIGURE 1 (CONT'D)

CATCAAAGACATCTACTTCCTGAATGAGGGCTGCGCCAACCGCCTTCCCAATGGACACGT
CAACTTTGAGAAATTCTTGGAGCTGGCCAAGCAGGTGGGGGAGTTTATCACCTGGAAACA
AGTGGAGTGTCCCTTCGAGCAAGACGCCAGCATCACCCACTACCTGTACACCGCCCCAT
CTTCAGTGAGGATGGTCTTTATTTGGCTTCTTACGAAAGTGAGAGCCCAGAGAACCAAAC
AGAAAAAGAAAGATGGAAAGCTCTAAGAGATCTTCTATTTTGGGAAGACATGAAAGCGC
TGAGCTGAGGGACGAGGAAGAGCTGGAGCCCGCAGAAGCCGTCCACAGCCCTGCCTCAGT
GGCCAGTGGGCAGAGGCCAGGGAGTGCCTCACTATTTTGCAAATGCCGACCCTGTGGCC
TGCTGCCCCGCCCCCCCCCCCCCAGTGGCCATACGGGCACAGGAGACCTTTTATGGGA
CTTTGGCCCTGGCAGGACCCAGGGCCTCCAGACGTGCGGGCGGCACATGCCTTGGGGACA
TCCTGCCTTCAGGACCGTGGGGCCTGGTCAGTCTGTCCATCCTCGGCAAGGACACAACAC
TGCCCCAGAGGGTGGGACCACTGCAAGCTCGAGACCTTGCTTGGTGACATGTGCCACTTT
GGCCACCACCCACAGTCTGTCAACAGTGGCTTGGGAACCTTCTGGAGCCACAGCAGGCAT
CACGGTGCAGCTGAGATGCCTGCGCCAGCCCCGAGCCCACTGGCAGCCACTGCCATTCC
ACCCATGGTCCCTCACCTGCCCTGCCGACGAGCTTGTCTCTGCAGCCCCAGGTACCCCC
TTCCTGGATGCTGCTGGCCCCAGGAGATAGCTTTCGGTGACAGCTGTGGAACGCGTCAA
CAGGACAAACTGGACACATGGAGTTACAGTGTGTACACGGCAGTCCCGCCACCCAGCCCC
CTTGTAACCTCTAGTCACTATAAACACACCCGTACGCCT

Gene 281. >ENST00000319571 cDNA sequence

ATGGGGTTTTCTCCACGTTGGTCAGGCTGGTCTTGAACCTCTGACCTCAGGTGATCCACCC
ACCTCAGCCTCC

Gene 282. >ENST00000320451 cDNA sequence

AAGATGTTCCAGTCAGGATTCAATCCTTGATACACAGCAAAGCATTCTATGGTAAAAAG
GCCCCATAACTGTAATTCACATGGAGAAGATGCCACACAAAATTCTGAGTTAATTAAAC
TCAAAGAATGTTTGTAGGAAAGAAGATCTATGAATGTAATCAGTGCAGCAAAACCTTCAG
TCAGAGCTCATCCCTTCTTAAGCACCAGAGGATTCACTAGGGGAGAAACCTATAAGTG
TAATGTATGTGGGAAACACTTCATTGAACGATCCTCCCTTACTGTACATCAAAGAATTCA
TACTGGAGAGAAACCTATAAATGTAATGAATGTGGGAAAGCCTTTAGTCAGAGCATGAA
TCTTACTGTCCATCAACGAACTCACACCGGAGAGAAACCTATCAGTGTAAAGAGTGTGG
CAAAGCCTTCCATAAGAATTCTCTCTTATTTCAGCATGAAAGGATTCACTAGGAGAGAA
ACCTTACAAATGTAATGAATGTGGTAAAGCTTTTACCCAAAGCATGAATTTGACAGTTCA
TCAGAGAACTCATAAGGAGAAAAACCTATGAATGTAATGAATGTGGAAAAGCCTTCAG
TCAAAGCATGCATCTTATTGTACATCAGAGAAGCCATACTGGAGAAAAACCTATGAGTG
TAGTCAATGTGGAAAAGCCTTTAGTAAGAGCTCAACTCTTACCCTACATCAGCGAAATCA
CACTGGAGAAAAACCTTACAAATGTAACAAATGCGGGAAATCCTTTAGCCAAAGTACATA
TCTTATAGAACATCAGAGACTTCATTCTGGAGTAAACCTTTTGAATGTAACGAGTGTGG
AAAAGCTTTTCAGTAAGAATTCTCTCTAACTCAACATCGGAGAATTCACTGGAGAGAA
ACCTTATGAGTGTATGGTGTGTGGAAAACATTTCACTGGACGATCATCCCTTACCGTGCA
TCAGGTCAATTCACACTGGAGAGAAACCTTATGAGTGCAATGAATGTGGAAAGGCATTTCAG
CCAGAGTGCCTTACCTTATTGAACATCAAAGAATTCTACTGGTGAGAAACCTATGAATG
TGATCAGTGTGGAAAAGCCTTCATTAAGAATTCTCCCTTACAGTGCATCAGAGAATCA
TACAGGAGAGAAACCTATCAGTGTAAATGAATGCGGAAAAGCCTTCAGCCGGAGTACAAA
CCTTACACGACATCAAAGAACTCATACGTGAGGAATGTTTTCACTGGCCCTTACCTCATG
ATTAACCTCTTCAGTAATAATCATATGAGACATACAATGTAGAAACCTAATAAATGTAATG
ATTGTGGGAATCTTTTCAGTTGAAGTACAATATGTATATCAGATAATACCACTGCAGAGA
ATCCATCTAAAAGTAGAGAAATCTTGATTGAGAATGTATAATTTCTTTTATATCAGAAGG
TTTAAATAGCTAATATAAACAATGAAGAGTCATGCTGAAGATAAGTTCTGTTATATCATA
CCGCACATTCTCCTTTGGCTATCAGAGACTTTTCACTGGAGAGAAAAATGTGAGAGTGT
TAACTGGACAGCCCAGAGACCTGGTATGTAGTCCTAATCTGCCACTGCCTTGGACAACTT
GCCTACTTCCACCAGGTATGGTTCTTTATTTGGTAAATGAATGATTTTGGAGTTAGAAA
TCTTGTAGGAGCTCTGTTAGCTCTAAAATGCTACAACTCTATAAATATAATGAATGCTGG
G

Gene 283. >ENST00000258707 cDNA sequence

GGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACC
TCAGCCTCC

FIGURE 1 (CONT'D)

Gene 284. >ENST00000320129 cDNA sequence

```
ATTGTGTTCTGACTGCGATGTGGCGCTTGCGATCTCTCGCCGCCGGCAGAGGCTCCTCGA
AGAGCGACACGGGGCTGACCAGGCACGGTGGTCAAAGCCGCAGAGGGAGAGCGGGAGCGG
TCGTGAGGTCTGCTGGGGAGAAGGGCGGAGGCAAAGCCGAGGAGCAGGTGTGTGGACCCT
TCTAGCCTGAGGAGTCTGTCAGGTGTGAAGCTCCACACCTGCCTCCATAGCACTTTGCCT
GTCCCTAAGAGGGCTCATCGGAGAAGAAAGAATGGCTGTGAGCCACCTGCCAACCATGGT
CCAGGAATCGGTGACCTTCAAGGATGTGGCTATACTGTTTACCCAGGAAGAGTGGGGGCA
GCTGAGCCCCGCCAGAGGGCCCTGTACAGGGACGTGATGCTGGAGAACTACAGCAACCT
GGTCTCACTGGGACTCTTAGGACCCAAACCAGATACGTTTTCCAGCTAGAAAAAAGGGA
AGTGTGGATGCCAGAGGACACCCCTGGAGGCTTCTGTCTTGACTGGATGACTATGCCTGC
CAGTAAGAAATCTACTGTCAAGGCAGAGATTCTCTGAAGAAGAATTGGATCAATGGACAAT
AAAGGAAAGATTCACTAGCAGTAGTCACTGGAAGTGTGCTAGCCTGCTGGAGTGGCAATG
TGGAGGCCAGGAGATCAGTTTGAGCGAGTGGTACTCACTACCCCAACACCCCATCACA
GGAATGTGATGAATCCGGGAGCACTATGAGCTCATCTCTTACAGTGATCAAAGTCAGGG
ATTTCAACCTAGCAAAAATGCCTTTGAGTGTAGTGAAGTGTGGAAAAGTCTTCTCTAAGAG
TTCAACTCTTAATAAACATCAGAAAATTGATAATGAAAAAAATGCAAATCAGAAAATTCA
TATTAAGGAGAAAAAGATATGAATGTAGAGAATGTGGGAAAGCCTTTACCAGAGTACGCA
CCTTATCCATCACCAAAGAATTCACACTGGCGAGAAACCTATGAATGTAAGGAATGTGG
CAAGGCCTTCTCAGTGAGCTCCTCACTTACGTACCATCAGAAAATTGATACTGGAGAGAA
GCCTTTTGAATGCAACTTATGTGGAAAAGCTTTTATCCGAAATATACACCTTGCCCATCA
TCATAGAATACATACTGGAGAGAAACCTTTTAAATGTAACATTTGTGAAAAAGCCTTTGT
GTGCAGGGCACACCTTACCAAACACCAGAATATCCACAGTGGAGAGAAACCTTATAAATG
CAATGAATGTGGAAAAGCCTTTAATCAGAGTACAAGTTTCCTTCAGCATCAGAGAATTCA
CACTGGAGAGAAACCTTTGAATGTAATGAATGTGGGAAGGCCTTCAGGGTGAACCTTTC
CCTTACTGAACATCAGAGAATTGATACTGGAGAGAAACCTTATAAATGTAATGAATGTGG
GAAAGCTTTTCAGGGATAATTCATCCTTTGCACGACATCGGAAAATTCACTGGAGAGAA
ACCTTACAGATGTGGCTTGTGTGAGAAAGCCTTTTCGGGACCAATCAGCACTAGCCCAACA
TCAGAGAATTGATACTGGGGAAAAACCTTATACATGTAACATATGTGAAAAAGCCTTCAG
TGACCATTTCAGCCCTTACCCAACATAAGAGAATTGATACTAGGGAAAAACCTTACAAATG
TAAAATCTGTGAGAAAGCCTTTATCCGAAGCACTCACCTGACTCAACATCAGAGGATTCA
CACAGGAGAGAAACCTTATAAATGTAATAAATGTGGGAAAGCTTTTAAACCAGACTGCAAA
CCTCATTTCAGCATCAGAGACATCATATTGGAGAGAAAGTGATATGAATGCAGTTTGTATGG
AAGACCTTTGAGACTGAGTAGATGAATTATTGAATGTGAGATAATCCGTTCTAGAGAATA
ACTATGAAAGCTTGATCAAGATAGTCACTTTATTTACTGAGGGTCAAGTTTTCAGAGTGT
CATGGGGTTTGGGCATTTAAGAATGGCAACACTCGGCTGGGCACAGTGGCTCACGTCTG
TAATCTTTGGGAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTGAGGAGATCGAG
ACCATCCTGGCTAACAGGGTGAAACCCCATCGCTACTAAAAATATAAAAAATTACCCGGG
CATGGTGGTGGGCGCCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATG
AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGGGCG
ACAGAGCAAGACTCAGTCTC
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Gene 285. >ENST00000319065 cDNA sequence

```
ATGCAGCTGGATGGGCTGCAGGCCCTCTGCTGGGGGTCTTGTTCAGGACACAGCTTGTA
CCAGTATATGTGGCGGTCTGCCCCTCTCCCCAGCCCTGCATACCTCCCACCTGCACAGCA
TTCACGGAATTCTCAGGCCCACTCGCAAAACACCACAGCTTCCAGCCTTTCCAGGTGGCT
GCTCCAGCTGGCCCCAGGTCCCCACCCCAACCTTCCATCTCCCATCTGTGTCCAGGTC
CATGCCACACACCTTCTGTGCCCCGTCCGTGTCTTGGGCCCCCTTACCCTCCCTCTCTT
GAGTTACTGACCTCCATCCACAGCCCAGCTGTCTTCTGCCCCACAGATACCCAGATC
AGCTATGCCTCCACAGCCCCGGAGCTCAGCGACTCCACACGCTATGACTTCTTCTCCCGG
GTGGTGCCACCCGACTCCTACCAGGCGCAGGCCATGGTGGACATCGTGAGGGCACTGGGA
TGGAATATGTGTCCACGCTGGCCTCCGAGGGCAACTATGGCGAAAGTGGGGTTGAGGCC
TTCGTTTCAGATCTCCCGAGAGGCTGGTGAGCTGGGGGCTCCGAGGCACCAAGGAGTCTAC
ATAGTGTGGGCCCCGGGGCCCTCAGTTGGGGCAGAAGCAGAAAGATGGGGGGCCAGGTCC
ATGCTGGGCGGAGGTTGCCTGGCTGGTGCTCCATGTGGGCGGGACCTCTTTGTTTGGAC
GACTCAGCCCTGCCTCAGGCTTGGCGGAGGGTGCAGGCCAGACTTCACCCCTGCAGACCC
```

FIGURE 1 (CONT'D)

TTCAGCCAGCCTACACAGTCCTCTGCAGCGGTGGCCAGGTGGTCTATCAAGATTCCCAGG
 GAACCAAAGCCAGGAGAGTTTTCAGCAAGGTGATCAGGAGACTCATGGAGACGCCAACGCC
 CGGGGCATCATCATCTTTGCCAATGAGGATGACATCAGCCCTGCTCCTACCAGGCGGGTC
 CTGGAGGCAGCTCGCCAGGCCAACCTGACCGGCCACTTCTGTGGGTGGCTCAGACAGC
 TGGGGAGCCAAGACCTCACCCATCTTGAGCCTGGAGGACGTGGCCGTTGGGGCCATCACC
 ATCCTGCCCAAAGGGCCTCCATCGACGGATTTGACCAGTACTTCATGACTCGATCCCTG
 GAGAACCAACCGCAGGAACATCTGGTTTCGCCGAGTTCTGGGAAGAGAATTTTAACTGCAA
 CTGACCAGCTCAGGTACCCAGTCAGACGATTCCACCCGCAAATGCACAGGTGAGAGCTGC
 CCAGGGTGGACAGGCGAGGAACGCATCGGCCGGGACTCCACCTACGAGCAGGAGGGCAAG
 GTGCAGTTTGTGATTGATGCGGTGTACGCCATTGCCACGCCCTCCACAGCATGCACCAG
 GCGCTCTGCCCTGGGCACACAGGCCTGTGCCCGGCGATGGAACCCACTGATGGGCGGATG
 CTTCTGCAGTACATTTCATGTCCGCTTCAATGGCTGAATCGCATCCATTGTGTGAATGG
 CCCCCTCGTGTTTCGTCCATTCTTCTGTTCAGTGGACGCTCGGGTTGCTTTTCATCTTGTGGC
 TATGTGAATAACGCTGCTGTGAACGTGGCTGTACAAGCATTTCTTGCCACCCTGCTTTCT
 AGTCTCTCGAGTATCTACCCGGGAGTGGAAGTCTGCTGGGTGATGTGTTTAATCTTTTGGAG
 AGGCTCCACACTGTTTTCTGCAGCGGCTGCAGCCTTTTCCACCCACCGTGCACAAGGGC
 AGCGCAGGAACCCCTGTGATGTTCAACGAGAACGGAGATGCGCCCGGCGGTACGACATC
 TTCCAGTACCAGGCGACCAATGGCAGTGCCAGCAGTGGCGGGTACCAGGCAGTGGGCCAG
 TGGGCAGAGACCCTCAGACTGGATGTGAGTGTGCAGACCGAGCCCGAGGTGGGCATGGGC
 CCAGGATCCCGGAGGCAGACGCCCCAGCCTGTGTTTTGTGCGTCCAGGTGGAGGCCCTG
 CAGTGGTCTGGCGACCCCCACGAGGTGCCCTCGTCTCTGTGCAGCCTGCCCTGCGGGCCG
 GGGGAGCGGAAGAAGATGGTGAAGGGCGTCCCCTGCTGTTGGCACTGCGAGGCCTGTGAC
 GGGTACCGCTTCCAGGTGGACGAGTTTCACATGCGAGGCCTGTCTGGGGACATGAGGCC
 ACGCCCAACACACGGGCTGCCGCCCCACACCTGTGGTGCGCCTGAGCTGGTCTCCCCC
 TGGGCAGCCCCCGCGCTCCTCCTGGCCGTGCTGGGCATCGTGGCCACTACCACGGTGGTG
 GCCACCTTCGTGCGGTACAACAACACGCCCATCGTCCGGGCCTCGGGCCGAGAGCTCAGC
 TACGTCTCCTCACCGGCATCTTCTCATCTACGCCATCACCTTCTCATGGTGGCTGAG
 CCTGGGGCCGCGGTCTGTGCCGCCCGCAGGCTCTTCTGGGCCTGGGCACGACCCTCAGC
 TACTCTGCCCTGCTCACCAAGACCAACCGTATCTACCGCATCTTTGAGCAGGGCAAGCGC
 TCGGTACACCCCCCTCCCTTCATCAGCCCCACCTCACAGCTGGTCATCACCTTCAGCCTC
 ACCTCCCTGCAGGTGGCTGCGTCCGGGCCTGGGGTTCATCTGTGGTTTTGCCTGCGTGGGACC
 TTACCACACCCTCTCTTTTGGAGAAAGACCCCTGGGTTTTTCTTGTGGACCCCTCACTT
 CTACTCTTGGATCATGTGGTATGGGTGAACCTCACCTCCTTAGGCTCCAGCTGGCACTGT
 GATGGGTCTCGGAACGCTCCGAGGTGGGAGGAGAGGCCAGGAGCTGCTTCTCAGGCTCTT
 ACCTTTTTCTATGGCCAGGTGAGGGGCGGGGAGACTGGCCTCATGTGAAGGTATGGTC
 GTGGTGTACCAGAGCAGTCTTGTGTACTACATGAAGCAGGCGCAGGCTGGACGTGTGAAG
 ACAGAGCTGCTGAAGGTGGCACATCACAGGTGGCCAAGTCTGTCCCTGAAGAGTCCCAA
 ATCGTGGTCTTTCATCTTGTTCAGCTGGGTATGTGACATGGCCATTAGGACTACAAGA
 GCAAGCCTGCACTTAATGCCGCTGACGCTAGTTTCTGGAGCCGCGGCTGAGGTGAATGAG
 ACTCAAGTGGCTGCACGCCTTGGTCTTGGCTCAACGGTAGGCACATACCAAGTAGTGGTA
 GTTCTCATGCGTTTATTACAGATAGACAAAACCAACCAACTCAGCTTAGAAACGTGC
 TTCTCAGGGATTCAAGGGTTTCTCGCCAGTGTGAATTCTTTGGTGATGGATAAG

Gene 286. >ENST00000231188 cDNA sequence

CGGAGGCCCGGGCAGGCCGGCTGAGCTAACTCCCCAGAGCCGAAGTGGAAGGCGCGCCCC
 GAGCGCCTTCTCCCCAGGACCCCGGTGTCCCTCCCCGCGCCCCGAGCCCGCGCTCTCCTT
 CCCCCGCCCTCAGAGCGCTCCCCGCCCTCTGTCTCCCCGCGCCCGCTAGACGAGCCGA
 TGGCGCGGCCCCGGAGAGCCCGGAGCCGCTGCTCGTGGCGCTGCTGCCGCTGGCGTGGC
 TGGCGCAGGCGGGCCTGGCGCGCGCGGGCGGCTCTGTGCGCCTGGCGGGCGGCCTGACGC
 TGGGCGGCCTGTTCCCGGTGCACGCGCGGGGCGCGGGCGGGCGTGGCGGCAGCTGA
 AGAAGGAGCAGGGCGTGCACCGGCTGGAGGCCATGCTGTACGCGCTGGACCGCGTCAACG
 CCGACCCCGAGCTGCTGCCGGCGTGCGCCTGGGCGCGCGGCTGCTGGACACCTGCTCGC
 GGGACACCTACGCGCTGGAGCAGGCGCTGAGCTTCTGTGAGGCGCTGATCCGCGGCCGCG
 GCGACGGCGACGAGGTGGGCGTGCCTGCCCCGGGAGGCGTCCCTCCGCTGCGCCCCGCGC
 CCCCCGAGCGCGTGTGGCCGTGTGGGCGCCTCGGCCAGCTCCGTCTCCATCATGGTGC

FIGURE 1 (CONT'D)

CCAACGTGCTGCGCCTGTTTTGCGATACCCCAGATCAGCTATGCCTCCACAGCCCCGGAGC
TCAGCGACTCCACACGCTATGACTTCTTCTCCCGGTGGTGCCACCCGACTCCTACCAGG
CGCAGGCCATGGTGGACATCGTGAGGGCACTGGGATGGAACATATGTGTCCACGCTGGCCT
CCGAGGGCAACTATGGCGAAAGTGGGGTTGAGGCCTTCGTTTCTAGATCTCCCGAGAGGCTG
GGGGGGTCTGTATTGCCAGTCTATCAAGATTCCAGGGAACCAAGCCAGGAGAGTTCA
GCAAGGTGATCAGGAGACTCATGGAGACGCCAACGCCCGGGGCATCATCATCTTTGCCA
ATGAGGATGACATCAGGCGGGTCTTGAGGCGAGCTCGCCAGGCCAACCTGACCGGCCACT
TCCTGTGGGTGCGCTCAGACAGCTGGGGAGCCAAGACCTCACCCATCTTGAGCCTGGAGG
ACGTGGCCGTTGGGGCCATCACCATCCTGCCCAAAGGGCCTCCATCGACGGATTTGACC
AGTACTTCATGACTCGATCCCTGGAGAACAACCGCAGGAACATCTGGTTGCGCGAGTTCT
GGGAAGAGAATTTTAACTGCAAACTGACCAGCTCAGGTACCCAGTCAGACGATTCCACCC
GCAAATGCACAGGCGAGGAACGCATCGGCCCGGACTCCACCTACGAGCAGGAGGGCAAGG
TGCAGTTTGTGATTGATGCGGTGTACGCCATTGCCACGCCCTCCACAGCATGCACCAGG
CGCTCTGCCCTGGGCACACAGGCCTGTGCCCGGCGATGGAACCCACTGATGGGCGGATGC
TTCTGCAGTACATTTCGAGCTGTCCGCTTCAATGGCAGCGCAGGAACCCCTGTGATGTTCA
ACGAGAACGGAGATGCGCCCGGGCGGTACGACATCTTCCAGTACCAGGCGACCAATGGCA
GTGCCAGCAGTGGCGGGTACCAGGCAGTGGGCCAGTGGGCAGAGACCCCTCAGACTGGATG
TGGAGGCCCTGCAGTGGTCTGGCGACCCCCACGAGGTGCCCTCGTCTCTGTGCAGCCTGC
CCTGCGGGCCGGGGAGCGGAAGAAGATGGTGAAGGGCGTCCCCTGCTGTTGGCACTGCG
AGGCCTGTGACGGGTACCGCTTCCAGGTGGACGAGTTACATGCGAGGCCTGTCTGGGG
ACATGAGGCCACGCCCAACCAACAGGGCTGCCGCCCCACACCTGTGGTGCGCCTGAGCT
GGTCTCCCCCTGGGCAGCCCCGCCGCTCCTCCTGGCCGTGCTGGGCATCGTGGCCACTA
CCACGGTGGTGGCCACCTTCGTGCGGTACAACAACAGCCCATCGTCCGGGCCTCGGGCC
GAGAGCTCAGCTACGTCTCTCCTCACCGGCATCTTCTCATCTACGCCATCACCTTCCTCA
TGGTGGCTGAGCCTGGGGCCCGGTCTGTGCCCGCCCGCAGGCTCTTCTGGGCCTGGGCA
CGACCTCAGCTACTCTGCCCTGCTCACCAAGACCAACCGTATCTACCGCATCTTTGAGC
AGGGCAAGCGCTCGGTACACCCCCCTCCCTTCATCAGCCCCACCTCACAGCTGGTCATCA
CCTTCAGCCTCACCTCCCTGCAGGTGGTGGGGATGATAGCATGGCTGGGGGCCCGGCCCC
CACACAGCGTGATTGACTATGAGGAACAGCGGACGGTGGACCCCGAGCAGGCCAGAGGGG
TGCTCAAGTGCAGCATGTGCGATCTGTCTCTCATCGGCTGCCTGGGCTACAGCCTCCTGC
TCATGGTCACGTGCACAGTGTACGCCATCAAGGCCCGTGGCGTGCCCGAGACCTTCAACG
AGGCCAAGCCCATCGGCTTACCATGTACACCACCTGCATCATCTGGCTGGCATTTCGTGC
CCATCTTCTTTGGCACTGCCCAGTCAGCTGAAAAGATCTACATCCAGACAACCAAGCTAA
CCGTGTCTTTGAGCCTGAGTGCCTCGGTGTCCCTCGGCATGCTCTACGTACCCAAAACCT
ACGTATCCTCTTCCATCCAGAGCAGAATGTGCAGAAGCGAAAGCGAGCCTCAAGGCCA
CCTCCACGGTGGCAGCCCCACCAAGGGCGAGGATGCAGAGGCCACAAGTAGCAGGGCA
GGTGGGAACGGGACTGCTTGCTGCCTCTCCTTTCTTCTTCTTGCCTCGAGGTGGAAGCTG
TATAGAGCCCGGGTCCACGGTGAACAGTCAGTGGCAGGGAGTTTGCCAAGACCATGCTCC
GCGTCCGTGGGGCTGGCCTTGAGAAGGAACTGGACCCAGCTCTACCCCGATTCCAGCATG
TGAGCTTCATGCTTCTCACCACAGACCAGACTCGCTTCCCATGGTGGGAAACAGCCACC
GAGAAGGTTCTAGCTCTAGAAAGGGACTAAACTTATTCTCTCATCCGAAGTCCAAAGAGG
ATGATGAAGCCCTGGGCTTTGCCTGGTTTGCGGGAGATTTCTCCCTCAGTCAACCCCC
ATAACCTGGGGATTGGGCAGTGTGGAAGAACGTGTAGACCCAGAAATGAAACATGGGGTT
GGAGTGGAGGAGGAGCTGTCTCAGCAAGAGGAGACCTGGGGCTGTGCATCTGGATGGAGG
CACTCAGGCCTGGGTAGGATTCTCTGGCACGGAGGGAGAGACCTGGGTGAGACCCCTG
TGAGCATGGGAAGGGCCTGCAGTGGGCGCGGGAGTGAGCTGAGGAACTGGGGTGCGCCCC
CATGAGATTCCCAATGCCATGGGCTTTCCCCCATCCCCCGGGATTGGGCAAGGTGAGAC
TTAGAGTACAGCTGTTTTCTCCCCTCTGTGTACTCCCTTAAATCACCCCAACCTTGGCC
AGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCAC
CTGAGGTCCGGAGTTCGAGACCAGCCTGGCCAATGTGGTGAACCCCTGTCTCTACTAAAA
ATACAAAAATTAGCCAGGTGTGATGGTGGGTGCCTGTAATCCCAGTTACTTGGGAGGCTG
AGGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCTGTGATTGTGCCAC
TGTACTCCAGCCTGGGTGACAGAGCGAGACTCTGTCTCAAAAAACAAAAACAAAAACA
CCAAAAAACCCCAACCTGAAGAAATTGAGATACAGTGTGTAATGTTAGTGATGTGA

FIGURE 1 (CONT'D)

GAACAAGGAGCAGGGGTGCATTTGTGTTGTGTTTCGGGTTGGGGATGGGTTTAGGAGCTCC
 AGGTTGGGAGCAGTGACAGAGAGTCATGGCCGTGGTGAGGGTGAATCCCAAGTGGATGGC
 TCAGGACGGGTATGGAAACCTTCATTCCTCATAGGTACTGGGAAGTCCATTTGCAAGCT
 GAGCGCCAGGCCTGGGGAGGAAGAGGCTTGGGCTGCAGATGCACGCACATTTGTTTTTCA
 CTGATAGTTTTTACAAAAAGCTTGGTTTAAGTTATGGAGTTTTATGTCCCTGGGAGTAGA
 ATTTACATTTGTTAAATTGACCACTGTTTAAGATCAGTATACATTCTCTAGTCTGTGATG
 TCTGGAGCTAGTTTTGAGGGTGAACCACACTTTATCCAACATACAACTTTCCCATGCAG
 CTTCTCTGGTGCGCAGTTGGTTTTGACCGTGGGACTAGGTGCTTCTGCAGGTTTTAAGTA
 ATTAACTTAAAGCTTCTCCTCTGAGAAACATTTCTGTTGCGCTACTGACTCTCCTTCTC
 CACATTTGTTGTGTTCTAGGGCTTCTCTATAGTGCACATTAGGACGTTTCATTTGTTGC
 TGAATGCTTTCCAGAATTATTTATTCATAGGGTTTCTCTCCTGTGCAGCTCTCTCATGG
 GTAATGGGGCGTGTTTTCTTGCCAAAGGCGGTTCCACCCTCGTGATTGTATAGGGCTCTT
 CTCCTGTATGAACTCTGAGATCAGTGAGCTCTGATCTCCAAGGGAAAGTTTTCTGCATT
 TGCTGTTTTCTCATGTCTCTCCAGTGTGAATTCTTTGGCTTCTAGCTGAAAACTTTTCC
 ACAGTTTTACATTCATGTGGTTTTCTCCACTGTGAACTCTGTGATTGAGAATCAGAAGCA
 GTTCTTAGTAGAGGCATTTCTACACTGATTGCACTGAGGATTTCTCCCGAGTGTGAAGTT
 TCTGGCATAGAGTCCTGGCTTCCCGCAGACGACTTTCACACTCTGCCATGTTTCATGCCTG
 TGGGCCTCTCTGGCAGGAACTCTGATGCACCGCAGGCCCATGTACTCCTGTGGCTTTCT
 CACATTCGGTCTACTTGCAGGGTATCTCCACAGCATGCACCATTCTGGGTACAGGGGGAC
 ATCCTCTGTTACTGAAGATGTTGTCTATTTAGTACCTTCACAAGGTTTCTCTCCTTCCA
 GAATTTTCTGATGTACACAAATAACTGACTTCCACAAGAGGGCTTTTCCACACTCGGTGT
 GTGCATACAGTTTCTGCCTGTGATCATTTCTTTATGTTATTATTTTATTTTTTCGAGATA
 GGGTCTTGCTCAATTTCTTAGGCTGGAGTGCAGTGGCACGATCATAGCTCACTGAAGTTT
 CGACCTGGGCTCAAGCAATCCTCCCGCTTCAGCCTCCTGAGTAGCTGGTGCACACGACCA
 TACCCAGCTAATGTTTTATTTTTTGTAGAGACGAGGTCTCACTATGTTGCCAGGCTGGT
 CTCGAACCTTCTGAGCTCGAGCGATCCTCCTGCCTCCACCTCCCAAAGTGTTTCGGATTACA
 AACGTGAGCCATCGCACCTAGCCTCTTTGATCATTTCTGTGGTGTTCAGTGGAGGTTGAC
 AGCTCCCTAAAGATTTTCTGTTTTTTTTGCATGCATGGGTTTGAATTCTTTGAGGTCCAA
 TTTATTTGGACCCCTGAATAAAGTTTTGTGGGTTTTCTTCTATGTGTGGAATTTATAAGG
 CATTCCTCCAGTGTGGTTTTCTTTATGTGAGTGAGAGCTGACCTGCACCGAAGGTTTTG
 TCCCATTTGTTGCCCTTGAATTATTTGTATGAATTATATGTTCCAGTGAAAATGGAGTTC
 TGGGTTGGAGGCTTATTCCATGTTTACACAATTAAAATTGCAGTGTTTCTCTCTGGGATG
 AGAGCTCTAAAGCAGAGTAAGATTACGTTCTGATGTAAGCTTTAACCACCTATTTATAAG
 GTCTCACCTGTGGTCCACTGTGTTGAGACTTCTACAGAAGAGCTTCTGTATAGTAACCAT
 TTTCTTAGGCTGTCTCACTTGTGTGAATCTTCTGACACATTTATTATAGCTTTGTCCCAT
 TTCTTATCCTTTTTGCTCTTTAGAAATTTCCCTTTAATTTATTACATTCATTGCTTACTG
 TAAAGAGTCCAGGTAACCTGACTTTATTTCAGTTACTTCTGTTCAATAAATTTAACTTTTC
 CC

Gene 287. >ENST00000315475 cDNA sequence

GGTCCCGGGGCGCCGTCCGCGAGCGGCCTGGACTGCCGGAGACCCGCGGGAGGGAGCGCC
 TCGCCAGACCCACCGTGTCCCACTCTGCTCTCCCTGGGCAGGAAGACTGAGGAGGAAGG
 GATGGCTGTGGATCTGCTGTCTGCTCAGGAGCCTGTGACATTGAGGGATGTGGCCGTGTT
 CTTGAGCCAGGACGAGTGGTTGCACCTGGACTCTGCCAGAGGGCCTTGTACCGGGAGGT
 GATGCTGGAGAACTACAGCAGCCTGGTCTCACTGGGGATTCCATTTTCAATGCCAAAGTT
 GATTCATCAGTTGCAGCAAGGAGAAGATCCCTGCATGGTGGAAAGAGAAGTCCCTTCAGA
 TACCCGTCTAGGTTTCAAGACTTGGCTTGAAACAGAAGCATTGCCTCATAGACAGGACAT
 TTTTATAGAAGAAACATCTCAGGGAATGGTAAAGAAAGAATCCATTAAAGGATGGTCACTG
 GGACATTAACTTTGAAGAAGCTGTGGAATTTGAGAGCGAGATAGAAGAAGAGCAAGAGAA
 GAAACCTCTTAGACAAATGATAGATTGCGATGAGAAAACCATCAGTGAAGATGGAAACCA
 TACAAGTCTTGAATTGGGGAAAAGCTTATTTACAAATACAGCTCTTGTACACAACAGAG
 TGTTCTATAGAAAGGATACCCAATATGTATTATACATTTGGGAAAGATTTTAAACAGAA
 TTTTGATCTCATGAAATGCTTCCAGATTTACCCAGGAGGAAAACCTCACATCTGTAATGA
 ATGTGGGAAGAGCTTCAAGCAGAATCTGCATCTTATTGAACATCAGAGAATTCATACAGG
 TGAGAAACCTACAAATGTAATGAGTGTGAAAAAACCTTCAGCCACAGATCATCCCTTCT

FIGURE 1 (CONT'D)

TTCTCATCAGAGAATTCTACTGGAGAGAAACCTTACAAGTGTAATGAATGTGAGAAGGC
 ATTTAGCAACAGTTCAACCCCTTATCAAACATCTGAGAGTGCATACTGGAGAGAAACCGTA
 TCGATGTAGGGAATGTGGTAAAGCCTTTAGCCAGTGTTCAACCCCTACTGTACATCAGAG
 AATTCATACTGGAGAGAACTCTATAAATGCGGCGAATGTGAGAAGGCCTTCAACTGTAG
 AGCAAACTTTCACAGGCATCAAAGAATCCATACAGGTGAGAAACCTATAAATGTAGTGA
 GTGTGGGAAGGGATACAGCCAGTTTACATCTCTAGCTGAACATCAGAGGTTTCATACTGG
 AGAACAACTGTATACATGCTTGAATGTGGGAGAAACCTTACACGTATTGTAACCCCTTAT
 CGAACATCAGCGAATTCACACTGGACAAAACCTTATCAGTGCAACGAATGTGAGAAAGC
 CTTCAACCAGTATTTCATCCTTTAATGAACATCGGAAAATTCTACTGGGGAAAACTTTA
 TACATGTGAGGAATGTGGGAAAGCCTTTGGTTGCAAATCTAACCTTTATAGGCATCAGAG
 AATTCATACTGGAGAGAAACCGTATCAGTGTAATCAGTGTGGAAAGGCCTTCAGCCAGTA
 TTCATTTTTTAACCGAACATGAGAGGATCCACACTGGAGAGAACTGTATAAATGTATGGA
 ATGTGGGAAAGCCTACAGTTACAGATCAAACCTTTGTAGACACAAAAAAGTTACACGAA
 AGAGAACTCTATAAGTGGAAGGAATATGGGAAACCTTTCTCTGCAGCTCCTCACTTAC
 CCAGTATCAGAGATTTTTTAAAGGAGATAAAGCCTATGAGGTTTAGTTTCATCTCTCAAAT
 AATCCAAGACTTCTCACTGGGGAATAAGGGAATAATAAATAGGGTACAACTCCTAATAG
 ATTTGTCTTTTTTACTTCTCCTGAAGGAAATATGTTAGTTGCCACTAAGTCATGATAAAA
 TTGATCAGTGAGACTATGAAGAGCACTGACTTGTTAAATTTTAAAAGAACCATAAATCT
 AAGGTATCTAAAAACCTATGAGTATTTAATTATAGAAAAAATGTAAAAGGTCTTTTTTAA
 AAATCATGAAAAATAGTTGAATATACATTTTGTCTCTCATAAGACCATATTCCCTTTA
 AAAGAGTAAGCTTCAATATGTGAATTTTCTTTTAAAAACAGTCACTGAGTTAATAATGTA
 AATAAGTGTGTGGCCTTCTTTAAATAGCTGGCTAACATAGGAGGCACTTCTTTTCATAA
 AGAGAAGCTAAACATAAAAAGGAATTTTAAATTTAACTCTTCACATGGAAATAATAAAGC
 TCTTTATATGAGCTGTCCACCAGCAACTTATATATGTAAACATACATATATACACATAT
 GCATGTGTGTGTGTAAACATAAAAGTCCTTTATTATT

Gene 288. >ENST00000261948 cDNA sequence

CTCTACCGGTGAGGGTTTTCGGGGGAAGATGGAGTATCCCGCGCCGGCCACGGTGCAGGCC
 GCGGACGGCGGAGCGGCGGGGCCTTACAGCAGCTCGGAGTTGCTGGAGGGCCAGGAGCCG
 GACGGGGTGCGCTTTGACCGCGAGAGGGCGCGCCGCCTGTGGGAAGCCGTGTCCGGTGCC
 CAGCCGGTGGGTAGAGAGGAAGTGGAGCACATGATCCAGAAGAACCAATGTCTCTTCACC
 AACACCCAGTGTAAGGTTTGTGCGCCTTGCTTATTTCTGAGTCCCAGAAGCTGGCACAT
 TACCAGAGCAAAAAACATGCCAACAAAGTGAAGAGATACCTAGCAATCCATGGAATGGAG
 ACATTAAAGGGGGAAACGAAGAAGCTAGACTCAGATCAGAAGAGCAGCAGAAGCAAAGAC
 AAGAACCAGTGCTGCCCCATCTGTAACATGACCTTTTCTCCCTGTGCTGGCCAGTCG
 CACTACCTGGGGAAGACCCACGCAAGAACTTAAAGCTGAAGCAGCAGTCCACTAAGGTG
 GAAGCCTTGCACCAGAATAGAGAGATGATAGACCCAGACAAGTTCTGCAGCCTCTGCCAT
 GCAACTTTCAACGACCCTGTCTGCTCAACAACATTATGTGGGCAAGAAACACAGAAAA
 CAGGAGACCAAGCTCAAATAATGGCAGCTATGGGCGGCTGGCGGACCTGTCTGCTACT
 GACTTTCCAGCTGGAAAGGGCTACCCCTGCAAAAACATGTAAGATAGTGCTGAACTCCATA
 GAACAGTACCAAGCTCATGTGAGCGGCTTCAAACACAAGAACCAGTCACCAAAAAACAGTG
 GCATCATCCCTGGGCCAGATTCCAATGCAAAGGCAACCCATTGAGAAAGACTCAACCACC
 TTGGAAGACTAG

Gene 289. >ENST00000274827 cDNA sequence

CGGACGCGCGCGCCCTCCCCCTCCCCCGCGCTCCCAACGTGTGGCGGCTCGCGACCCC
 CGGCAACCCGGAGAAGGTCTACAGAGCGGCCTGCGCCAGCGAACAAAAGGATGCCACGGA
 GAAAGAAAAAAGTTAAAGAAGTCTCCGAATCTCGGAACCTGGAGAAGAAGGATGTGGAAA
 CTACCAGTTCTGTGAGTGTGAAGAGGAAGCGTAGACTTGAGGATGCATTTCATTGTGATAT
 CCGATAGTGATGGAGAGGAACCAAAGGAGGAAAATGGGTTGCAGAAAACGAAGACAAAAC
 AGTCGAATAGAGCAAAGTGTTTGGCCAAAAGAAAAATCGCACAGATGACAGAAGAAGAAC
 AGTTTGCTCTGGCTCTCAAAATGAGTGAGCAGGAAGCTAGGGAGGTGAACAGCCAGGAGG
 AGGAAGAAGAGGAGCTCTTGAGGAAAGCCATTGCTGAAAGCCTGAATAGTTGCCGGCCTT
 CTGATGCTTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTTCCAGTCCCATC
 AAGAGAAAACACAGACTCTGGGCTCACTGAAGGCATGTCTCCCTGCATATGGCAGCTGG
 TACCTCCATCACTGTTTAAAGGCTCACATATCAGTCAGGGAAACGAGGCTGAGGAAAGAG

FIGURE 1 (CONT'D)

AGGAGCCTTGGGACCACACTGAAAAAAGCTGAAGAGGAGCCGGTCTCTGGCAGCTCAGGAA
GCTGGGACCAGTCAAGCCAGCCAGTGTGTTGAGAATGTGAACGTTAAATCTTTTGACAGAT
GTACTGGCCACTCGGCTGAGCACACACAGTGTGGGAAGCCACAGGAAAGTACTGGGAGGG
GTTCTGCTTTTCTCAAAGCTGTCCAGGGTAGCGGGGACACATCTAGGCACTGTCTACCTA
CCCTAGCAGATGCCAAAGGTCTCCAGGACACTGGGGGCACTGTGAACTATTTCTGGGGTA
TTCCATTCTGCCCTGATGGAGTAGACCCTAACCAGTATACCAAGGTCAATTCTCTGCCAGT
TGGAGGTTTATCAAAGAGCCTGAAAATGGCTCAGAGGCAGCTCCTTAATAAAAAAGGTT
TTGGGGAACCAAGTGTACCTAGACCTCCTTCTCTGATCCAGAATGAATGTGGCCAAGGAG
AGCAGGCTAGTGAGAAAAATGAATGCATCTCAGAAGATATGGGAGATGAAGACAAAGAGG
AGAGGCAGGAGTCTAGGGCATCTGACTGGCACTCAAAAACCAAGGATTTCCAGGAAAGCT
CAATTAAAAGCTTGAAAGAGAACTTTTGTGGAGGAAGAACAACAACCAAGTCATGGTC
AGTCTTCCCAAGGGATTGTTGAAGAACTTCTGAAGAGGGAACTCTGTACCTGCTTCAC
AAAGTGTGCTGCTTTGACCAGTAAGAGAAGCTTAGTCCTTATGCCAGAGAGTTCTGCAG
AAGAAATCACTGTTTGTCTGAGACCCAGCTAAGTTCCTCTGAACTTTTGACCTTGAAA
GAGAAGTCTCTCCAGGTAGCAGAGATATCTGGATGGAGTCAGAATAATAATGGCAGATA
AGGAGGTTGGTAAACAAGGAAGATGCTGAGAAGGAAGTAGCTATTTCTACCTTCTCATCCA
GTAACCAGGTATCCTGCCCCGCTATGTGACCAATGCTTTCCACCCACAAAGATTGAACGAC
ATGCCATGTACTGCAATGGTCTGATGGAGGAAGATACAGTATTGACTCGGAGACAAAAAG
AGGCCAAGACCAAGAGTGACAGTGGGACAGCTGCCCAGACTTCTCTAGACATTGACAAGA
ATGAGAAGTGTACCTCTGTAAATCCCTGGTCCCATTAGAGAGTATCAGTGTCTGTGG
ACTCCTGTCTCCAGCTTGCAAAGGCTGACCAAGGAGATGGACCTGAAGGGAGTGGAAGAG
CATGTTCAACTGTGGAGGGGAAGTGGCAGCAGAGGCTGAAGAACCACAAAGGAAAAAGGCC
ACAGTGAAGGCCGACTCCTTAGTTTCTTGGAACAGTCTGAGCACAAAGACTTCAGATGCAG
ACATCAAGTCTTCAGAAACAGGAGCCTTCAGGGTGCCTTCACCAGGGATGGAAGAGGCAG
GCTGCAGCAGAGAGATGCAGAGTTCTTTTACACGTCGTGACTTAAATGAATCTCCCGTCA
AGTCTTTTGTTCATTTTTCAGAAAGCCACAGATTGCTTAGTGGACTTTAAAAAGCAAGTTA
CTGTCCAGCCAGGTAGTCGGACACGGACCAAAGCTGGCAGAGGAAGAAGGAGAAAATTCT
GAATTTCTAGGGTCCAAAAGTTGACAAAACCATTAGTAGGAGGGGTGGGCCATGTTCAAT
AAGCCATAGTGGTCCCTAGTTTATTGTTGAGCAAGTTTTAGCCCTGCAGTTTTTACCACC
AGCACCTACCCAGCATTCTGGTTTTTATGTTTTTATGATCTATGCAGACAACCTGTGTAT
TCTGTTTTATAACAGTTTTGTTTGAATTTACTTACAGTTAAAAAATTTAAATAT

Gene 290. >ENST00000323774 cDNA sequence

ATGCTTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTTCCCAGTCCCATCAAG
AGAAAACCACAGACTCTGGGCTCACTGAAGGCATGTCTCCCTTCTTCCCAAGGGATTGTT
GAAGAACTTCTGAAGAGGGAACTCTGTACCTGCTTCACAAAGTGTGCTGCTTTGACC
AGTAAGAGAAGCTTAGTCCTTATGCCAGAGAGTTCTGCAGAAGAAATCACTGTTTGTCT
GAGACCCAGCTAAGTTCCTCTGAACTTTTGACCTTGAAAGAGAAGTCTCTCCAGGTAGC
AGAGATATCTTGATGGAGTCAGAATAATAATGGCAGATAAGGAGGTTGGTAAACAAGGAA
GATGCTGAGAAGGAAGTAGCTATTTCTACCTTCTCATCCAGTAACCAGGTATCCTGCCCCG
CTATGTGACCAATGCTTTCCACCCACAAAGATTGAACGACATGCCATGTACTGCAATGGT
CTGATGGAGGAAGATACAGTATTGACTCGGAGACAAAAAGAGGCCAAGACCAAGAGTGAC
AGTGGGACAGCTGCCCAGACTTCTCTAGACATTGACAAGAATGAGAAGTGTACCTCTGT
AAATCCCTGGTCCCATTAGAGAGTATCAGTGTCTGTGGACTCCTGTCTCCAGCTTGCA
AAGGCTGACCAAGGAGATGGACCTGAAGGGAGTGGAAGAGCATGTTCAACTGTGGAGGGG
AAGTGGCAGCAGAGGCTGAAGAACCACAAAGGAAAAAGGCCACAGTGAAGGCCGACTCCTT
AGTTTCTTGGAACAGTCTGAGCACAAAGACTTCAGATGCAGACATCAAGTCTTCAGAAACA
GGAGCCTTCAGGGTGCCTTCACCAGGGATGGAAGAGGCAGGCTGCAGCAGAGAGATGCAG
AGTTCTTTTACACGTCGTGACTTAAATGAATCTCCCGTCAAGTCTTTTGTTCATTTCA
GAAGCCACAGATTGCTTAGTGGACTTTAAAAAGCAAGTTACTGTCCAGCCAGGTAGTCGG
ACACGGACCAAAGCTGGCAGAGGAAGAAGGAGAAAATTCTGAATTTCTAGGGTCCAAAAG
TTGACAAAACCATTAGTAGGAGGGGTGGGCCATGTTCAATTAAGCCATAGTGGTCCCTAGT
TCATGTGTTGAGCAAGTTTTAGCCCTGCAGTTTTTACCACCAGCACCTACCCAGCATTCTG
GTTTTTATGTTTTTATGATCTATGCAGACAACCTGTGTATTCTGTTTTATAACAGTTTGT
TTGAATTTACTTACAGTTAAAAAATTTAAATAT

FIGURE 1 (CONT'D)

Gene 291. >ENST00000253490 cDNA sequence

```
ACTGTGACCTGTTGCTGAGGTGATCTGATGATATAGGTCTTGCCTTTCATTTTAACTGCC
ATTCTGGCAACTGAACGTTGGCAGTAAACGCAGCTTAGTTGTCTCAGAGGACTCACAAATG
GGATGTGCTTATAGTTGTTGCTCGAAGTGTGTTGTGGCGAGGATGAAATAGTGTATCCT
AGGATGCCAGGGGAATCCACCGTCTGCCACCGCGAGCGTGAGAAGCCAATCACCTATCAC
TGGTATCACTGGCATCCCGGCCATATATACCTAGAGTTGCATCAATGGAAGATTACGAT
GAGGACCTGGTGCAGGAAGCTTCATCTGAAGATGTCCTGGGCGTTTCATATGGTGGACAAA
GACACAGAGAGAGACATTGAGATGAAACGGCAACTACGGCGACTACGGGAGCTCCACCTA
TACAGCACATGGAAGAAGTACCAAGAGGCGATGAAGACATCCTTGGGAGTTCCACAATGT
GAGCGTGACGAAGGCTCCTTGGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACG
TTGCCAGGCTCTGTGAAGAAAAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTT
ATAGCAGAACATCTCCCTGAAGCATCCAATCAGAGTCTCCTCACTGTTGCCCATGCAGAC
ACAGGCATCCAAACCAACGGTGACCTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACA
GTCTCTGAGGAAGCCACAGAAGTTCACATGATGGAGGGGGACCCAGACACACTGGCCGAA
CTTCTGATCAGGGATGTACTTCAGGAGCTGTCCAGTTACAACGGCGAGGAGGAGGCCA
GAGGAGGTGAAGACATCCTTGGGAGTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAG
CATGTGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGGGGTTACATGATGCAGGTGGAC
CCAGCCACGCCGGCAAAGAGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACA
GTCTCTGAGGAAGCCACAGGGGTTACATGATGCAGGTGGACCCAGCCACACTGGCAAAG
CGTACGTATTCTGGGATCATCTCTTTGTTTAGGTGTGAAATCTTAGTGTTGTAAAGGTAG
TGCTGCTTTCACCTGCTTTTGCTCAAGGGCCACTCTGGTTTGTAGCTTTCTGCCAGAAATGA
GATTTGGGAATTTTGGTTTAAAACTACTAAGAGTCACACCGGGCAGAGTGGCTCACGCC
TGTAATCCAGCACCTTGAGAGGCGGAGACGGGCGGATCAGCAGAGGTGAGGAGTTTGAG
ACCAGCCTGACTGACATTGAGAAACCCACCGCTCCTAAAAATACAAAATTACCTGGGTG
TGGTGTGCATGCCTGCAATCCAGCTACTCAGGAGGCCAAGGCAGGAGAATCACTTGAA
CCGAGGTGGTAGAGGTTGAGGTGAGCCAAGGTTGTGCCATTGCACTCCAGCCTGGGCAAC
GAGCGAAACTCCGTCTC
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Gene 292. >ENST00000331171 cDNA sequence

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AAAGAGAATGAGACAGGAGTTGGCGAGTTTCTCTTGCTCAGCATCACCAAGTGAAGTCAAG
AAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAAC
ACACCCATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCCCACGTAATTTCTTC
ACCCATCTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCCAAGCTCCTGGTC
AACCATTGCCTGACTCAGATGTACTTCTCTCATCTCCTTTGCCAACGTGGACACCTTTCTG
CTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCC
ATCATCACCCCCGGCTCTGTGAGGGGCTGGCCCCCTCATCTCCCTGGTCCACACGGTCATC
ATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTCACTTCTACTGTGACGCCTAC
CTGCTCATGAAGATTGCCTGCTCACATACAAATCAGCATGTGTTTCTGGGGGCGGTGGTC
CTGTTCTGGCTCCCTGTGCGCTCATCTTGGTCTCCTACATCCGCATTGCTGCAGCCATC
CTCCGGATTCCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCACCTG
TCTCTGGTCACCCTGTTCTATGGAAGTGTCTGGGGATCTGCATAGACCCCCAGACTCCT
TCTCAGCCCGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCC
TTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGG
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Gene 293. >ENST00000333723 cDNA sequence

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AAAGAGAATGAGACAGGAGTTGGCGAGTTTCTCTTGCTCAGCATCACCAAGTGAAGTCAAG
AAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAAC
ACACCCATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCCCACGTAATTTCTTC
ACCCATCTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCCAAGCTCCTGGTC
AACCATTGCCTGACTCAGATGTACTTCTCTCATCTCCTTTGCCAACGTGGACACCTTTCTG
CTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCC
ATCATCACCCCCGGCTCTGTGAGGGGCTGGCCCCCTCATCTCCCTGGTCCACACGGTCATC
ATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTCACTTCTACTGTGACGCCTAC
CTGCTCATGAAGATTGCCTGCTCAATACATGTCAATCAGCATGTGTTTCTGGGGGCGGTG
GTCTCTGTTCTGGCTCCCTGTGCGCTCATCTTGGTCTCCTACATCCGCATTGCTGCAGCC
ATCCTCCGATTCCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCAC
```

FIGURE 1 (CONT'D)

CTGTCTCTGGTCACCCTGTTCTATGGAAGTGTCTCTGGGGATCTATCCAGACTCCTTCTCA
GCCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCCTTC
ATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGGGGC
TCACACTCATCA

Gene 294. >ENST00000330220 cDNA sequence

AATGAGACAGGAGTTGGCGAGTTCCTCTTGCTCAGCATCACCAGTGAAGTCAAGAGAAGCAG
CAGGCCCTCTTCTGGCTCTTCCTGTGTATGCACCTTAGTCACTGAGGCTGGAAACACACCC
ATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCACGTAAGTCTTCAACCCAT
CTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCCAAGCTCCTGGTCAACCAT
TGCCTGACTCAGATGTACTTCCTCATCTCCTTTGCCAACGTGGACACCTTTCTGCTGGCC
ATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCCATCATC
ACCCCGGCTCTGTGAGGGGCTGGCCCTCATCTCCTGGTCCACACGGTCATCATGAGC
AGACTGGCCTTCTGCTCCTCCGCCAGATTTCAACTTCTACTGTGACGCCTACCTGCTC
ATGAAGATTGCCTGCTCACATACATGTGAGCATGTGTTCTGGGGGCCGTGGTCTGTTC
CTGGCTCCCTGTGCGCTCATCTTGGTCTCTACATCCGCATTGCTGCAGCCATCCTCCGG
ATTCCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCACCTGTCTCTG
GTCACCCCTGTTCTATGGAAGTGTCTCTGGGGATCTGCATAGACCCAGACTCCTTCTCAGCC
CAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCCTTCATC
TACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGG

Gene 295. >ENST00000319449 cDNA sequence

ATGATGGAGGAGCGTGCCAACCTGATGCACATGATGAAACTCAGCATCAAGGTGTTGCTC
CAGTCGGCTCTGAGCCTGGGCCGAGCCTGGATGCGGACCATGCCCCCTTGACAGCAGTTC
TTTGTAGTGATGGAGCACTGCCTCAAACATGGGCTGAAAGTTAAGAAGAGTTTTATTGGC
CAAAATAAATCATTCCTTTGGTCCTTTGGAGCTGGTGGAGAACTTTGTCCAGAAGCATCA
GATATAGCGACTAGTGTGAGAAATCTTCCAGAATTAAAGACAGCTGTGGGAAGAGGCCGA
GCGTGGCTTTATCTTGCACTCATGCAAAAGAACTGGCAGATTATCTGAAAGTGCTTATA
GACAATAAATCATCTCTTAAGCGAGTTCATGAGCCTGAGGCTTTAATGATGGAGGAAGAA
GGGATGGTGATTGTTGGTCTGCTGGTGGGACTCAATGTTCTCGATGCCAATCTCTGCTTG
AAAGGAGAAGACTTGGATTCTCAGGTTGGAGTAATAGATTTTTCCCTCTACCTTAAGGAT
GTGCAGGATCTTGATGGTGGCAAGGAGCATGAAAGAATTACTGATGTCCTTGATCAAAAA
AATTATGTGGAAGAACTTAACCGGCACCTTGAGCTGCACAGTTGGGGATCTTCAAACCAAG
ATAGATGGCTTGAAAAGACTAACTCAAAGCTTCAAGAAGAGCTTTTCAAGCTGCAACAGAC
CGAATTTGCTCACTTCAAGAAGAACAGCAGCAGTTAAGAGAACAATAATGAATTAATTCTGA
GAAAGAAGTGAAAAGAGTGTAGAGATAACAAAACAGGATACCAAAGTTGAGCTGGAGACT
TACAAGCAAACCTCGGCAAGGTCTGGATGAAATGTACAGTGATGTGTGGAAGCAGCTAAAA
GAGGAGAAGAAAGTCCGGTTGAGAGGAAAACAAAGGCATGAACCATTGATACACATGGAA
ACTTGGATTGATCTCCAAGACATTATTCTGAGAAAAAGTCAGTCTCAAGGTTATATAATG
TATAATTACATTGAGATTACATTCTCAAAAAGCCAAAGCCATATTGTTGCAGGACAGATG
AGTGGTTGCCAGGGGCTGAGCAAAAGTCATCCTTTCTTACAAAGATTTGCTTCATTTGC
ACTCTTGCTGGTGTGCGATCCAGGTTGCAGCACTCGGAGCGGGCGAGGCAGGGGGCTGAG
GAGCGGAGCCACAAGCTGCAGCAGGAGCTGGGCGGGAGGATCGGCGCCCTGCAGCTGCAG
CTCTCCCAGCTGCACGAGCAATGCTCAAGCCTGGAGAAAGAATTGAAATCAGAAAAAGAG
CAAAGACAGGCTCTTCAGCGCGAATTACAGCACGAGAAAGACACTTCCTCTCTACTCAGG
ATGGAGCTGCAACAAGTGGAAGGACTGAAAAGGAGTTGCGGGAGCTTCAGGACGAGAAG
GCAGAGCTGCAGAAGATCTGCGAGGAGCAGGAACAAGCCCTCCAGGAAATGGGCCTGCAC
CTCAGCCAGTCCAAGCTGAAGATGGAAGATATAAAGAAGTGAACAGGCACTGAAGGGC
CACGCCTGGCTGAAAGATGACGAAGCGACACACTGTAGGCAGTGTGAGAAGGAGTTCTCC
ATTTCCCGGAGAAAGCACCCTGCCGGAAGTGTGGCCACATCTTCTGCAACACCTGCTCC
AGCAACGAGCTGGCCCTGCCCTCCTACCCCAAGCCGGTGCGAGTGTGCGACAGCTGCCAC
ACCCTGCTCCTGCAGCGCTGCTCCTCCACGGCCTCCTGA

Gene 296. >ENST00000333864 cDNA sequence

ATGGATGGAGAGAATCACTCAGTGGTATCTGAGTTTTTGTCTTCTGGGACTCACTCATTCA
TGGGAGATCCAGCTCCTCCTCTAGTGTTTTCTCTGTGCTCTATGTGGCAAGCATTACT
GGAAACATCCTCATTGTGTTTTCTGTGACCACTGACCCTCACTTACACTCCCCCATGTAC

FIGURE 1 (CONT'D)

TTTCTACTGGCCAGTCTCTCCTTCATTGACTTAGGAGCCTGCTCTGTCACTTCTCCCAAG
ATGATTTTATGACCTGTTTCAGAAAGCGCAAAGTCATCTCCTTTGGAGGCTGCATCGCTCAA
ATCTTCTTCATCCACGTGTTGGTGGTGTGGAGATGGTGTCTCATAGCCATGGCCTTT
GACAGATATGTGGCCCTATGTAAGCCCCTCCACTATCTGACCATTATGAGCCCAAGAATG
TGCCTTTTCATTTCTGGCTGTTGCCTGGACCCTTGGTGTCACTCACTCCCTGTTCCAACCTG
GCATTTCTTGTTAATTTAGCCTTCTGTGGCCCTAATGTGTTGGACAGCTTCTACTGTGAC
CTTCCTCGGCTTCTCAGACTAGCCTGTACCGACACCTACAGATTGCAGTTTATGGTCACT
GTTAACAGTGGGTTTATCTGTGTGGGTACTTTCTTCATACTTCTAATCTCCTACGTCTTC
ATCCTGTTTACTGTTTGGAAACATTCCTCAGGTGGTTCATCCAAGGCCCTTTCCACTCTT
TCAGCTCACAGCACAGTGGTCCTTTTGTCTTTGGTCCACCCATGTTTGTGTATACACGG
CCACACCCTAATTACAGATGGACAAGTTTCTGGCTATTTTTGATGCAGTTCTCACTCCT
TTTCTGAATCCAGTTGTCTATACATTAGGAATAAGGAGATGAAGGCAGCAATAAAGAGA
GTATGCAAAACAGCTAGTGATTTACAAGAGGATCTCATAA

Gene 297. >ENST00000326748 cDNA sequence

TTTCGTCTTAGCCACGCAGAAAGTCGCGTGTCTAGGTGAGTCGCGGTGGGTCTCGCTTGC
AGTTTCAGCGACCACGTTTGTTCGACGCCGACCGCGTAAGAGACGATGATGTTGGGCAC
GGAAGGTGGAGAGGGATTTCGTGGTGAAGGTCCGGGGCTTGGCCTGGTCTTGCTCGGCCGA
TGAAGTGCAGAGGTTTTTTCTGACTGCAAAATTCAAATGGGGCTCAAGGTATTCGTTT
CATCTACACCAGAGAAGGCAGACCAAGTGGCGAGGCTTTTGTGAACTTGAATCAGAAGA
TGAAGTCAAATTGGCCCTGAAAAAAGACAGAGAACTATGGGACACAGATATGTTGAAGT
ATTCAAGTCAAACAACGTTGAAATGGATTGGGTGTTGAAGCATACTGGTCCAAATAGTCC
TGACACGGCCAATGATGGCTTTGTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGA
AGAAATTGTTTCAGTTCTTCTCAGGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGT
GGACTTCCAGGGGAGGAGTACGGGGGAGGCCTTCGTGCAGTTTGCTTTCAGGAAATAGC
TGAAAAGGCTCTAAAGAAACACAAGGAAAGAATAGGGCACAGGTATATTGAAATCTTTAA
GAGCAGTAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTTATGGCCATGCA
GCGGCCAGGTCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGG
AGCTGGCTTTGAGAGGATGAGGCGTGGTGTCTATGGTGGAGGCTATGGAGGCTATGATGA
TTACAATGGCTATAATGATGGCTATGGATTTGGGTGAGATAGATTTGGAAGAGACCTCAA
TTACTGTTTTTTCAGGAATGTCTGATCACAGATACGGGGATGGTGGCTCTACTTTCCAGAG
CACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACTGAGAATGACAT
TTATAATTTTTTTTCCCGCTCAACCCTGTGAGAGTACACATTGAAATTGGTCCTGATGG
CAGAGTAACTGGTGAAGCAGATGTGAGTTCGCAACTCATGAAGATGCTGTGGCAGCTAT
GTCAAAGACAAAGCAAATATGCAACACAGATATGTAGAACTCTTCTTGAATTCTACAGC
AGGAGCAAGCGGTGGTGTCTTACGAACACAGATATGTAGAACTCTTCTTGAATTCTACAGC
AGGAGCAAGCGGTGGTGTCTTATGGTAGCCAAATGATGGGAGGCATGGGCTTGTCAAACCA
GTCCAGCTACGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTACGGAGGCGGCTACGG
TGGCCAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACTCCAGTGATTTTCA
ATCAAACATTGCATAGGTAACCAAGGAGCAGTGAACAGCAGCTACTACAGTAGTGGAAGC
CGTGCATCTATGGGCGTGAACGGAATGGGAGGGTTGTCTAGCATGTCCAGTATGAGTGGT
GGATGGGGAATGTAATTGATCGATCCTGATCACTGACTCTTGGTCAACCTTTTTTTTTTTT
TTTTTTTTTTTTCTTTAAGAAAACTTCAGTTTAAACAGTTTCTGCAATACAAGCTTGTGATT
TATGCTTACTCTAAGTGGAAATCAGGATTGTTATGAAGACTTAAGGCCCAGTATTTTTGA
ATACAATACTCATCTAGGATGTAAACAGTGAAGCTGAGTAACTATAACTGTTAACTTAA
GTTCCAGCTTTTCTCAAGTTAGTTATAGGATGTACTTAAGCAGTAAGCGTATTTAGGTAA
AAGCAGTTGAATTATGTTAAATGTTGCCCTTTGCCACGTTAAATTGAACACTGTTTTGGA
TGCATGTTGAAAGACATGCTTTTATTTTTTTGTAAAAAATATAGGAGCTGTGTCTACTA
TTAAAAGTGAAACATTTTGGCATGTTTGTAAATTCTAGTTTCATTTAATAACCTGTAAGG
CACGTAAGTTAAGCTTTTTTTTTTTTTTAAAGTTAATGGGAAAAATTTGAGACGCAATACC
AATACTTAGGATTTTGGTCTTGGTGTGTTGTATGAAATCTGAGGCCTTGATTTAAATCTT
TCATTGTATTGTGATTTCTTTTAGGTATATTGCGCTAAGTGAACCTTGTCAAATAAATC
CTCCTTTTAAAAACTG

Gene 298. >ENST00000329433 cDNA sequence

ATGGATTGGGTGTTGAAGCATACTGGTCCAAATAGTCCTGACACGGCCAATGATGGCTTT

FIGURE 1 (CONT'D)

GTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGAAGAAATTGTTTCAGTTCTTCTCA
GGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGTGGACTTCCAGGGGAGGAGTACG
GGGGAGGCCTTCGTGCAGTTTGCTTACAGGAAATAGCTGAAAAGGCTCTAAAGAAACAC
AAGGAAAGAATAGGGCACAGGTATATTGAAATCTTTAAGAGCAGTAGAGCTGAAGTTAGA
ACTCATTATGATCCACCACGAAAGCTTATGGCCATGCAGCGGCCAGGTCTTATGACAGA
CCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGCTGGCTTTGAGAGGATGAGG
CGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGATGGC
TATGGATTTGGGTGAGATAGATTTGGAAGAGGAATGTCTGATCACAGATACGGGGATGGT
GGCTCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGA
GCTACTGAGAATGACATTTATAATTTTTTTTTTACCCTGTGAGAGTACACATT
GAAATTGGTCCTGATGGCAGAGTAACTGGTGAAGCAGATGTCGAGTTCGCAACTCATGAA
GATGCTGTGGCAGCTATGTCAAAAGACAAAGCAAATATGCAACACAGATATGTAGAATC
TTCTTGAATTTCTACAGCAGGAGCAAGCGGTGGTGCTTACGGTAGCCAAATGCTAGGAGGC
ATGGCAAACAGTCCAGCTACGGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTTACGGA
GGCGGCTACGGTGGCCAGAGCAGCATGAGTGGATACGGTAAA

Gene 299. >ENST00000334421 cDNA sequence

CCGTAGTCAACGTGCGCCTCCCCTCCCGGCTCCAGCCGGGCGCGCCCCGGGCTCGAGTC
TCTGCCTGCCCAGTGGCAGCCCCGCCCTTCTCTCCAGTGGGCCCCCGGCGCCAGCTC
CGCGTCTGTGAGGTCCAGTGGCCGCCAGGCGCGACCAGATCTGGGTGCGCGGAGAGCG
CGCATGGCGGCTGTGGGACCGCGGACCGGCCCGGAACCGGCGCCGAGGCTCTAGCGCTG
GCGGCAGAGCTGCAGGGCGAGGCGACGTGCTCCATCTGCCTAGAGCTCTTTCGTGAGCCG
GTGTCCGTTCGAGTGCGGCCACAGCTTCTGCCGCGCCTGCATAGGGCGCTGCTGGGAGCGC
CCGGGCGCGGGGTCTGTTGGGGCCGCCACCCGCGCGCCCCCTTCCCACTGCCCTGTCCG
CAGTGCCGCGAGCCCGCGCGCCCCAGTCAGCTGCGGCCCCAACCGGCAGCTGGCGGCAGTG
GCCACGCTCCTGCGGCGCTTCAGCCTGCCCGCGGCTGCCCGGGAGAGCACGGGTCTCAG
GCGGCCGCGGGCCCGGGCAGCGGCTGCCCGCTGCGGGCAGCATGGCGAACCCTTCAAGCTC
TACTGCCAGGACGACGGACGCGCCATCTGCGTGGTGTGCGACCGCGCCCGCGAGCACCGC
GAGCACGCCGTGCTGCCGCTGGACGAGGCGGTGCAGGAGGCCAAGGAGCTCTTGGAGTCC
AGGCTGAGGGTCTTGAAGAAGGAACTGGAGGACTGTGAGGTGTTCCGGTCCACGGAAAAG
AAGGAGAGCAAGGAGCTGCTGGTGAGCCAGGCACCCGCGAGGCCCCCGTGGGACATTACA
GAGGCCTGAGAACTCAGCACCAGGGCTCGGTGTGTGTGGTGTGGAGTGTGTGCTATGGA
ACCGCAGAATCGATTTTCAAGAGATAATAGAGTCCATATTATATAGGGTGTCCACATAAT
TGTTGTACAAACCAGAGCTTTTTTAAAGTGAAAAGCAGTGCTAAAATAATTATTGCAAAAC
AACTGGCTTAACTGGAGCTGTCCAGCGAATCAGGACGCTCAGTCACTCTGATATTACG
TAACATACCAGTTAGGGCCTGCGGAAGCATCTTGTAAATGGAACACATTACTATTTCTGCA
GAGAAACATGGATATTCAATAAGTGGGAATATTAATACAATAAAGAGCCTCATGGCATGT
TTTGTCAACAAAACAGTAGT

Gene 300. >ENST00000322434 cDNA sequence

AGCGGCCGCTTGCTCCTCTAGGTCCCAGGCGCTCTGCGGAGCTTTCGCTGCCCGGTGAG
CGGCGCCGGGCTTGAGGTGCGCCAGACGTGCGAGGAGCCGGGTACAGAGGCTGGAGCTTC
CTGCTTGACAGAGTGCAGCGGGGAGGCGCGGCCCGGAACGCGGGATCCTGGGGAGATCTG
CCTTCTGGAGACTGCGCCGTCTTCCCGGGAGAGCCAGAAAGAGGACATGGCTGCTGGGCA
GCGGGAAGCGAGGCCCCAGGTGTCACTGACATTGAGGACGTGGCTGTGCTCTTTACCTG
GGATGAGTGGAGAAAGCTGGCTCCTTCTCAGAGAAACTTGTACCGGGATGTGATGCTGGA
GAACTATAGGAACCTGGTCTCACTGGGACTCTCATTTACCAAACCAAAGTCATCTCCCT
GTTGCAGCAAGGAGAAGATCCCTGGGAGGTGGAGAAAGACAGTTCTGGTGTCTCCTCTCT
AGGATGTAAGAGCACACCTAAAATGACAAAGTCAACTCAAACCTCAGGATTCATTTACGGA
GCAGATAAGGAAAAGATTGAAAAGGGATGAACCCTGGAACCTCATATCAGAAAGATCCTG
CATATATGAAGAGAAATTAAAGAAAACAGCAGGACAAAATGAAAATTTACAAATAATTTTC
AGTTGCCCATACAAAATCCTTACTGTAGATAGAAGCCATAAAAATGTTGAATTTGGCCA
AACTTCTACCTGAAATCAGTCTTCATTAAGCAACAGAGATTTGCTAAAGAAAAAACTCC
ATCAAAATGTGAAATACAAAGAAATAGTTTCAAGCAGAATTCAAATTTACTTAACCAATC
AAAAATCAAAACAGCAGAGAAACGCTATAAATGCAGTACATGTGAAAAAGCCTTCATTCA
CAATTCATCCCTTCGTAAACATCAGAAAAACCACTGGAGAAAAATTATTTAAATGTAA

FIGURE 1 (CONT'D)

AGAATGTTTAAAAGCTTTTCAGCCAAAGTTCTGCTCTTATTCAACATCAAAGAACTCATAC
 AGGAGAGAAAACCTATATATGTAAAGAATGTGGGAAAGCCTTCAGCCATAGTGCATCCCT
 TTGTAAGCATTAAAGGACCATACTGTGGAGAAATGCTATAGATGTAAAGAATGTGGTAA
 ATCCTTCAGTCGAAGGTCTGGGCTTTTATACATCAAAAAATCCATGCTCAAGAAAATCC
 CCATAAATACAATCCAGGCAGGAAGGCATCCAGTTACAGCACTTCCCTTTCTGGAAGTCA
 GAAAATTATCTCAGAAAGAAGTCTACTTATGTAATGAATGTGGCAACACCTTTAAGTC
 TAGCTCATCCCTTCGTTATCATCAGAGAATTCACTGGAGAGAAGCCTTTTAAATGTAG
 TGAATGTGGGAGAGCCTTCAGCCAGAGTGCCTCTCTTATTCAACATGAAAGAATTACAC
 CGGAGAAAAGCCCTATAGATGCAATGAATGTGGGAAAGCCTTTACTTCTATTTACGACT
 TAATAGACACCGAATAATTCACTGAGAGAAATTTGTATAATTGTAATGAATGTGGTAA
 AGCCTTAAGCTCCCACTCAACACTTATTATTATGAGCGAATTCACTGAGAGAAAACC
 ATGTAAATGTAAAGTATGTGGAAAAGCCTTCAGACAGAGTTCCGCTCTCATTCAACATCA
 GAGAATGCATACTGGAGAAAGACCCTATAAGTGTAAAGAAATGTGACAAAACATTAGGTG
 TAACTCATCGCTTAGTAATCACCAGAGAATTCACTGAGAGAAACCATATCGATGTTT
 AGAATGTGGGATGTCTTTTGGCCAAAGTGCAGCTCTTATACAACATCAGAGGATTATAC
 AGGAGAAAAACCTTTTAAATGTAATACATGTGGAAAACTTTTAGACAAAGCTCATCACT
 TATTGCACATCAAAGAATTCACTGAGAGAAACCTATGAATGTAATGCATGTGGGAA
 ACTCTTTAGCCAGAGGTATCCCTTACTAATCATTATAAAATTACATTGAAGAGGACTC
 CTTAAAAGCCGATTTGCATGTGTGAAAGCCTTAAACCAAACTCATCAGAGAATACATGC
 TTGAGAGTGATTTATTAAATATAATGAATATGAGAAAACTCTTAGTTCTCATCAGATACT
 AAGTTTTAAGAATAAACTTTAGCTATGTAATAACTTATGGGAAAAGCTTTTATACTTGTC
 ACTCACTTTTTTAAATATCCCGAGACAGTTCACTGTTGCAGACATTGAAATTGGCCATTT
 GTAAGATAAAAGGTATGTTTATAAAATCTCTTTATATAATATATGCTATCTATGACATGC
 AAAAAAGAAAAGTCTGGGTGCTGAGGTGCTGAATTTTTTCATTAGAAAAACATTTGTATAA
 ACTACTATTATATAAATATAAGCATATTTATTACAGCAAACATTTTAAAGCAAACAAAA
 CAATTGATCTTAAAAATATATGCAATATATACTTACCTGGCAGGGAAGATTACCATGATC
 ACGAAGGTGGTTTTTCCAGGGCAAGGCTTATCCATTGCACTCCAGATGTGCTGACCCCTT
 CAATTTCCCAAATGTGGAAAACCAACTGCATAATTTATGGTAGTGGGGGACTACATTC
 GCACTTTCTCCTGAAATATATATATATATGAGTATTAGAGCAAAGGACCAATAAGAGAT
 AAAAACTAACTGAACTACCTCTTAGTGCCTGGAATTTACCTTTTCTGACTTACTGTCAA
 ACTTCGTGCATGGCTTTTATTAAAAAAGAAAAATCTGTTCT

Gene 301. >ENST00000261961 cDNA sequence

GGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTTG
 CTGCTGCTTGTCTCATCCTCGTTTTATTGCCGAAGAAGGAGGGGCTGGACTCAGATGTG
 GCTGACTCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCA
 GACAACCCCATCTGCTCACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAG
 GGCAGTCTCTGTCCCGGCGAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCAC
 CTGCTCAGCCCCCTGGGTGGCGGCCGACACACTGCACCACAGCTCTCCACCTCTGAG
 GCCGAGGAGTTTCTCTCCCGCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGC
 ACCAGCAACATGACCTATGGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAAT
 ACAGGAATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATC
 TACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTTAGCTGGCTGTGAGACCCTG
 CTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCACC CGGCCAGTCATCCTG
 GCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAG
 TCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTC
 TACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCGGCTTT
 GCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTT
 GCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACC
 CACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAG
 GAGCCACGGGTCTGCACTTCAAGGACAGTTACCAACAACCTGCGCCTATCCATCCACGAT
 GTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCTTTTAT
 CACATCTGGAATGGCACGCAGCGGTACTTGCACCTGCACCTTACCCTGGAGCGTGTGAGC
 CCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAG
 AGCTTCAGCATCAACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTG

FIGURE 1 (CONT'D)

GAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTC
ATTTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGG
ACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGC
CCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGC
CAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTG
GAGGCTGAGTGTCTGA

Gene 302. >ENST00000329542 cDNA sequence

GCAGGTGCCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTG
CTTCCCCACTTCCTGGTGGAGCCCCGAGGATGTGTACATCGTCAAGAACCAAGCCAGTGTCTG
CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG
CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG
GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAGGTGTTTCGGGCTGGAGGAATAC
TGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC
CGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG
GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG
TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG
GAGCACAGCCTGGTGGTGGCAGAGGCCCGCTTGCTGACACGGCCAACTACACCTGCGTG
GCCAAGAACATCGTGGCACGTGCCCGCAGCGCCTCCGCTGCTGTCTCGTCTACGTGGAC
GGCAGCTGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGG
AGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGAC
CTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGAC
GTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGTGCTGCTTGTCT
CTCATCCTCGTTTATTGCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCC
ATTCTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCAT
CTGCTCACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGT
CCCCGGCAGGATGGGCCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCC
CTGGGT

Gene 303. >ENST00000316308 cDNA sequence

ATGCGGCATTCCAAAAGAACTCACTGTCTGATTGGGATAGCAGAGAAAGCTGGGGACAT
GAAAGCTATCGTGGAAGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAAC
AGGCATTGTAAACCACATCACCAGTTTAAAGAATCTGATTGTCTATTATTTAGAAGCAAGG
TCCTTGAATGAGCGAGATTATCGGGACCCGAGATACGTTGACGAATACAGGAATGACTAC
TGTGAAGGATATGTTTCTAGACATTATCACAGAGACATTGAAAGCGGGTATCGAATCCAC
TGCAGTAAATCTTCAGTCCGCAGCAGGAGAAGCAGTCCTAAAAGGAAGCGCAATAGACAC
TGTTCAAGTCATCAGTCACGTTTGAAGAGCCACCGAAGGAAAAGATCCAGGAGTATAGAG
GATGATGAGGAGGGTACCTGATCTGTCAAAGTGGAGACGTTCTAAGAGCAAGATATGAA
ATCGTGGACACTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAGTGCATTGATCATGGC
ATGGATGGCATGCATGTAGCAGTGAAAATCGTAAAAAATGTAGGCCGTTACCGTGAAGCA
GCTCGTTTCAAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTTC
CGATGTGTCCAGATGCTAGAATGGTTTGATCATCATGGTCATGTTTGTATTGTGTTTGA
CTACTGGGACTTAGTACTTACGATTTTATTAAAGAAAACAGCTTTCTGCCATTTCAAATT
GACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAATTTTTTACATCATAAT
AAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTGAAGTCTGACTATGTA
GTCAAATATAATTCTAAAATGAAACGTGATGAACGCACACTGAAAAACACAGATATCAAA
GTTGTTGACTTTGGAAGTGCAACGTATGATGATGAACATCACAGTACTTTGGTGTCTACC
CGGCACTACAGAGCTCCCGAGGTCAATTTTGCTTTAGGTTGGTCTCAGCCTTGTGATGTT
TGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGGTTTTCACAGTCTTTCAGACTCAT
GATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGACCCATACCACAACACATG
ATTCAAGAAAACAAGAAAACGCAAGTATTTTACCATAACCAGCTAGATTGGGATGAACAC
AGTTCTGCTGGTAGATATGTTAGGAGACGCTGCAACCGTTGAAGGAATTTATGCTTTGT
CATGATGAAGAACATGAGAACTGTTTGACCTGGTTTGAAGAATGTTAGAATATGATCCA
ACTCAAAGAATTACCTTGGATGAAGCATTGCAGCATCCTTTCTTTGACTTATTAAAAAAG
AAATGAAATGGGAATCAGTGGTCTTACTATATACTTCTCTAGAAGAGATTACTTAAGACT
GTGTCACTCAACTAAACATTCTAATATTTTGTAAACATTAAATTATTTTGTACAGTTAA

FIGURE 1 (CONT'D)

GTGTAAATATTGTATGTTTTGTATCAATAGCATAATTAACTTGTTAAGCAAGTATGGTCT
TGATAATGCATTAGAAAAATTAAAATTAATTTTTCTTTTGAATTAACATTTTTAAATA
CCTTTGAAATATCCTTTGTGTCCAGTGATAAATGTGATTGATCTTGCCTTTTGTACATGG
AGGTCACCTCTGAAGTGATTTTTTTTTGAGTAAAAGGAAATCTTGACTACTTT

Gene 304. >ENST00000292432 cDNA sequence

GGGTGCCTCATATTGCCAGACAAGAGCTCAGACCTGAGGAGAGTGACTAGCTTCTCTGTG
TCCCAGGTGGCCACCTTCCACTGTGGAAGCTCATGGACTCCATTGGGTCTTCAGGGTTGC
GGCAGGGGGAAGAAACCTGAGTTGCTCTGAGGAGGGCTTGCCCGGGCCCTCAGACAGCT
CAGAGCTGGTGCAGGAGTGCCTGCAGCAGTTCAAGGTGACAAGGGCACAGCTACAGCAGA
TCCAAGCCAGCCTCTTGGGTTCCATGGAGCAGGCGCTGAGGGGACAGGCCAGCCCTGCCC
CTGCGGTCCGGATGCTGCCTACATACGTGGGGTCCACCCACATGGCACTGAGCAAGGAG
ACTTCGTGGTGTCTGGAGCTGGGGGCCACAGGGGCCTCACTGCGTGTGTTGTGGGTGACTC
TAACTGGCATTGAGGGGCATAGGGTGGAGCCCAGAAGCCAGGAGTTTGTGATCCCCAAG
AGGTGATGCTGGGTGTCTGGCCAGCAGCTCTTTGACTTTGCTGCCCACTGCCTGTCTGAGT
TCCTGGATGCGCAGCCTGTGAACAAACAGGGTCTGCAGCTTGGCTTCAGCTTCTCTTTCC
CTTGTCAACAGACGGGCTTGGACAGGAGCACCTCATTTCTGGACCAAGGTTTTAGGT
GCAGTGGTGTGGAAGGCCAGGATGTGGTCCAGCTGCTGAGAGATGCCATTGCGAGGCAGG
GGGCCTACAACATCGACGTGGTTGCTGTGGTGAACGACACAGTGGGCACCATGATGGGCT
GTGAGCCGGGGGTGAGGCCGTGTGAGGTTGGGCTAGTTGTAGACACGGGCACCAACGCGT
GTTACATGGAGGAGGCACGGCATGTGGCAGTGCTGGACGAAGACCGGGGCCGCTCTGCG
TCAGCGTCGAGTGGGGCTCCTTCAGCGATGATGGGGCGCTGGGACAGTGCTGACCACCT
TCGACCATAACCTGGACCATGAGTCCCTGAATCCTGGTGCTCAGAGGTTTGAGAAGATGA
TCGGAGGCCTGTACCTGGGTGAGCTGGTGCGGCTGGTGCTGGCTCACTTGGCCCGGTGTG
GGGTCTCTTTGGTGGCTGCACCTCCCCTGCCCTGCTGAGCCAAGGCAGCATCCTCCTGG
AACACGTGGCTGAGATGGAGGACCCCTCTACTGGGGCAGCCCGTGTCCATGCTATCCTGC
AGGACTTGGGCCTGAGCCCTGGGGCTTCGGATGTTGAGCTTGTGCAGCACGTCTGTGCGG
CCGTGTGCACGCGGGCTGCCAGCTCTGTGCTGCCGCCCTGGCCGCTGTTCTCTCCTGCC
TCCAGCACAGCCGGGAGCAACAAACACTCCAGGTTGCTGTGGCCACCGGAGGCCGAGTGT
GTGAGCGGCACCCCAAGTTCTGCAGCGTCTTCAGGGGACAGTGATGCTCCTGGCCCCGG
AATGCGATGTCTCCTTAATCCCCTCTGTGGATGGTGGTGGCCGGGGAGTGGCGATGGTGA
CTGCCGTGGCTGCCCGTCTGGCTGCCACCGGCGCTGCTGGAGGAGACCCTGGCCCCAT
TCCGGTTGAACCATGATCAACTGGCTGCGGTTTCAGGCACAGATGCGGAAGGCCATGGCCA
AGGGGCTCCGAGGGGAGGCCTCCTCCCTTCGCATGCTGCCCACTTTCTGTCGGGGCACCC
CTGACGGCAGCGAGCGAGGGGATTTCTGGCCCTGGACCTCGGGGGCACGAACCTCCGTG
TCCTCCTGGTACGTGTGACCACAGGCGTGCAGATCACCAGCGAGATCTACTCCATTCCCG
AGACTGTGGCCCAGGGTTCTGGGCAGCAGCTCTTTGACCACATCGTGGACTGCATCGTGG
ACTTCCAGCAGAAGCAGGGCCTGAGCGGGCAGAGCCTCCCACTGGGTTTTACCTTCTCCT
TCCCATGTAGGCAGCTTGGCCTAGACCAGGGCATCCTCCTGAACTGGACCAAGGGTTTCA
AGGCATCAGACTGCGAGGGCCAAGATGTCTGTGAGTCTGTTGCGGGAAGCCATCACTCGCA
GACAGGCAGTGGAGCTGAATGTGGTTGCCATTGTCAATGACACGGTGGGGACCATGATGT
CCTGTGGCTATGAGGACCCCCGTTGCGAGATAGGCCTCATTGTGCGAACCAGGCACCAATG
CCTGCTACATGGAGGAGCTCCGGAATGTGGCGGGCGTGCCTGGGGACTCAGGCCGCATGT
GCATCAACATGGAGTGGGGCGCCTTTGGGGACGATGGCTCTCTGGCCATGCTCAGCACCC
GCTTTGATGCAAGTGTGGACCAGGCGTCCATCAACCCCGGCAAGCAGAGGTTTGAAAAGA
TGATCAGCGGCATGTACCTGGGGGAGATCGTCCGCCACATCCTTTTACATTTAACCAGCC
TTGGCGTTCTCTTCCGGGGCCAGCAGATCCAGCGCCTTCAGACCAGGGACATCTTCAAGA
CCAAGTTCTCTCTGAGATCGAAAGTGACAGCCTGGCCCTGCGGCAGGTCCGAGCCATCC
TAGAGGATCTGGGGCTACCCCTGACCTCAGATGACGCCCTGATGGTGCTAGAGGTGTGCC
AGGCTGTGTCCCAGAGGGCTGCCAGCTCTGTGGGGCGGGTGTAGCTGCCGTGGTGGAGA
AGATCCGGGAGAACCGGGGCCTGGAAGAGCTGGCAGTGTCTGTGGGGGTGGATGGAACGC
TCTACAAGCTGCACCCGCGCTTCTCCAGCCTGGTGGCGGCCACAGTGCGGGAGCTGGCCC
CTCGCTGTGTGGTCACTTCTGTCAGTCAAGGATGGGTCCGGCAAAGGTGCGGCCCTGG
TCACCGCTGTTGCCTGCCGCCTTGCGCAGTTGACTCGTGTCTGAGGAAACCTCCAGGCTG
AGGAGGTCTCCGCCGAGCCTTGCTGGAGCCGGGTGGGGTCTGCCTGTTTCCAGCCAG

FIGURE 1 (CONT'D)

GCCCAGCCACCCAGGACTCCTGGGACATCCCATGTGTGACCCCTCTGCGGCCATTTGGCC
TTGCTCCCTGGCTTTCCCTGAGAGAAGTAGCACTCAGGTTAGCAATATATATATATAATT
TATTT

Gene 305. >ENST00000331874 cDNA sequence

ATGCCGTATCAGTCCCGAAGACCTCCATAGAGTCCCTTGGGTCTCCATCATCCCTGAGC
TCCTCCCAGGCATCAGAGCCTCTGTGTCCCCTGAAGCACCTTCACACCGGCCACCTGCG
AGCACCTATCACCAAACCTGACCAGCTCCACAGAATCCTTGGGGTATCTGTATCCCTC
AGCTCCTCTCAGCCACCAGAGCCTTTGCGTCCCCTGGAATGTCTTCACACAAGCCATGT
GGGCGTTCCCTTCCCCGACGACGGAATCCTGGCTGGGTGTCTGGTCCGACTCCATGCAG
GCTGATTCCGAAACTGACGCCATAATATGCCCAATGTGCAAGGCCCTGAGCGCTCCTGT
CCACACACCTGGTGGGTGCCTTCTAGCCCTCGAGTGATCCGAGGCGTTGGTGCCTGCAGT
GATCCCAACCTGGGCCTCTCCTGGAGGCAGGAGGCTGCTAGAGCCTGGTGCCACTGCACC
TCCTCACAGTACCCATTCAAGCACCTAATCTTCCCACCCACCTACCAAAGGCTTCTTTC
TAG

Gene 306. >ENST00000329156 cDNA sequence

ATGGCTAAAGGTGACCCCAAGAAACCAAAGGGCAAGATGTCTGCTTATGTCTTCTTTGTG
CAGACATGCAGAGAAGAATGTAAAAAGAAAAACCTGTCAATTTTGCAGAATTTTCCAAG
AAGTGCTCTGAAAGGTGGAAGACAATGTCCGGGAAAGAGAAGTCTAAATTTGATGAAATG
GCAAAGACGGATAAAGTGCACTGTGATCGGGAAATGAAGGGACCAGCTAAGGGAGGCAAG
AAGAAGAAGGATCCTAGTGCCCCCAAAAGGCCACCATCTGGATTCTTCTGTTCTCTTCG
GAAATCCGCCCCAAGATCAAATCCACAAACCTGGCATCTCTATTGGAGATGTGGCAAAA
AAGCTGGGTGAGATGTGGAATAACTTAAATGACAGTGAAAAGCAGCCTTACATCACTAAG
ACGGCAAAGCTGAAGGAGAAGTACGAGAAGGATGTTGCTGATTCTAAGTCGAAAGGGAAG
TTTGATGGCTCAAAGCGT

Gene 307. >ENST00000247461 cDNA sequence

GGCACGTGACGGTCCGGCCCGCTCCGCTCTCTCTTTACTGCGGCGCGGGCAAGGTGTG
CGGGCGGGAAGGGGCACGGGCACCCCCGCGGTCCCCGGGAGGCTAGAGATCATGGAAGGG
AAGTGGTTGCTGTGTATGTTACTGGTGCTTGGAACTGCTATTGTTGAGGCTCATGATGGA
CATGATGATGATGTGATTGATATTGAGGATGACCTTGACGATGTCAATTGAAGAGGTAGAA
GACTCAAAACCAGATACCACTGCTCCTCCTTCATCTCCCAAGGTTACTTACAAAGCTCCA
GTTCCAACAGGGGAAGTATATTTTGTGATTCTTTTGACAGAGGAACTCTGTGAGGGTGG
ATTTTATCCAAAGCCAAGAAAGACGATACCGATGATGAAATTGCCAAATATGATGGAAAG
TGGGAGGTAGAGGAAATGAAGGAGTCAAAGCTTCCAGGTGATAAAGGACTTGTGTTGATG
TCTCGGGCCAAGCATCATGCCATCTCTGCTAAACTGAACAAGCCCTTCTGTTTGACACC
AAGCCTCTCATTGTTTCAGTATGAGGTTAATTTCCAAAATGGAATAGAATGTGGTGGTGCC
TATGTGAAACTGCTTTCTAAAAACACCAGAACTCAACCTGGATCAGTTCCATGACAAGACC
CCTTATACGATTATGTTTGGTCCAGATAAATGTGGAGAGGACTATAAACTGCACTTCATC
TTCCGACACAAAAACCCCAAAACGGGTATCTATGAAGAAAAACATGCTAAGAGGCCAGAT
GCAGATCTGAAGACCTATTTTACTGATAAGAAAAACACATCTTTACACACTAATCTTGAAT
CCAGATAATAGTTTTGAAATACTGGTTGACCAATCTGTGGTGAATAGTGGAAATCTGCTC
AATGACATGACTCCTCCTGTAAATCCTTCACGTGAAATTGAGGACCCAGAAGACCGGAAG
CCCGAGGATTGGGATGAAAGACCAAAATCCCAGATCCAGAAGCTGTCAAGCCAGATGAC
TGGGATGAAGATGCCCCCTGCTAAGATTCCAGATGAAGAGGCCACAAAACCCGAAGGCTGG
TTAGATGATGAGCCTGAGTACGTACCTGATCCAGACGCAGAGAAACCTGAGGATTGGGAT
GAAGACATGGATGGAGAATGGGAGGCTCCTCAGATTGCCAACCTTAGATGTGAGTCAGCT
CCTGGATGTGGTGTCTGGCAGCGACCTGTGATTGACAACCCCAATTATAAAGGCAAATGG
AAGCCTCCTATGATTGACAATCCCAGTTACCAGGGAATCTGGAAACCCAGGAAAATACCA
AATCCAGATTTCTTTGAAGATCTGGAACCTTTCAGAATGACTCCTTTTAGTGCTATTGGT
TTGGAGCTGTGGTCCATGACCTCTGACATTTTTTTTGACAACTTTATCATTTGTGCTGAT
CGAAGAATAGTTGATGATTGGGCCAATGATGGATGGGGCCTGAAGAAAGCTGCTGATGGG
GCTGCTGAGCCAGGCGTTGTGGGGCAGATGATCGAGGCAGCTGAAGAGCGCCCGTGGCTG
TGGGTAGTCTATATTCTAACTGTAGCCCTTCTGTGTTCTGTTTATCCTCTTCTGCTGT
TCTGGAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAACCTGATGCACCTCAACCGGAT
GTGAAGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAA

FIGURE 1 (CONT'D)

GGAGAAGAGAACTTGAAGAGAAACAGAAAAGTGATGCTGAAGAAGATGGTGGCACTGTCT
AGTCAAGAGGAGGAAGACAGAAAACCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCA
CCAAGAAACAGAAAGCCACGAAGAGAGTGAAACAATCTTAAGAGCTTGATCTGTGATTTCT
TTCTCCCTCCTCCCCTGCAAGAGTGGTCCTAGGAGAGGACCTGGCACACCTTAGGTTGAC
ATTGAGAAAACCTTCAAGACATCACCATCAGCAGGCTCCAGTTGAACACTAGTCTGTGTAA
CTTTAAACATCTAGCAGTAAATACTTGCAGTTGTGATATAAAGGACCCTGTTTCTGTAGA
AAAGAAAACATTTAAACATAATGGTTGTGAAATGTAACATGAAGCAAACCTAACTTTTTTTTT
TTTTAACATCTTTGTTTTTAAAATAGAATGATAGAACTTTGCCAGTCTTTAAGATCTTGG
CTTAATTTAATGTATTAATCTGTTTGTGCAACATAATACCACATTTAAAAATGTTAGG
GAGATGAGTTGCAGTTTTTATAATAGATTTTTTTTAAAGTTTGGTATTGTAAAACATTCA
CACCTCTGTCCCTCAAATTGATAATTACGTTTAAAGTGCAGTCATTTGTGGTTAGAATC
TTGTTTTGTTTGCTTCCATTATTGAGTTCCTCCTAAGGAAATTGAGGAGAGGGACTGAAT
AGAAGCCCAAATTATATAAAAGTTGCGTTTAAAGTTGTATTAAAAATAGATATATAAGAA
AAAATCTTTCACTTGATGTTTTGTTAGACCAGAAAGTGTGTGTGTTCTGTAGCTCAGTTC
CCAGACAGCTTTTTAGGTAGTGGAGGAGGTGGCTTCATGTGGCACTTGGGCATTTATATT
CCACTTGGGAGGGTCAGGCTGTGGCCTTCTGGAGCAGGTGGCTTGTAAAGGAATGCTAGC
AGGGCATGGCACGTGAGCTCCGGAATAGATGTCTTCATCACTTCTTCCACTGTGTGTTGA
CACTGTTTTCTTACCTATTTCTCAGATCCCAGCTTTCTCCTCTGCTATGCATTTTCT
TCACAGTGCAGCTTGCAGTCCGTTGCTGAAAATGATTATAAGCCCTGCATAATGTTAAGC
TTTATTGTGATTACGTGTATGTTTTCTTCTTTCTTTTAAAGCAGACCCATACCTTTCCAGGG
TCAAAGTACAGAATAGAATACATTGATACAAAGTACAGAAAAATACTTTGATTTTTATCC
ATTTCTTTTACTCTGTGTAAAGACTTGAGAAGTCTAATTACAGGCAAACCAATACAGAA
TTGACTGCAGTTGAACAGACTAGAAGTATTTGTGGGAGGAGTGACATGAAGCATGAGTTA
TCTGATTTTTTTTTGTAGCTGCTATATATTTTAAAGCCTTCATTTGCAATTCATGTAACAGT
TGTGTACATAAATTACACAATAAAGCAGTCCTGTTCAAATTTTTTTTTTAAAGTGGCTTGTA
GAATTTTTTAAAAAGTGATCTTAGGTTTGTTTTTTTCATGCGGGATGCAGATGGGTGCTAT
CAGAGCCTCTCCACACCACTATAGTGTAATAATGTTATTATTACTCTACACTGAAACGT
ATTCAGAGTTAGATATTATTTTAGCTTCAGTTGTTCTTTAGAGGCTTTCAAATGTACCGA
TGATACTGTTTCTTGCAGTGAATATATAAACACTCCACAGTGTATATTGGGAAGATAT
TGGGAAGGAAATATATTTGTAAAAGATGAAGGCTGTATCTATTTTTTTTTCTTTTTAAAG
TTTGTTCACCTAAATCTTTTGGAGGATGGGATGTATTTTTCTTGCTGTTCAGTGCTTTTT
CCTTTTCATCTGTTGTTCTGTGGTCACAGTGACCTTAGCTACATAGCAGACTTTCCCAA
TGTATTGATTACAAATAAACAGTTGTTACTTAGCAAGACCTGAAAATATGTCTGCAGGTT
TCTCCTTGAAGCAAATGTGTGGGATCATTGCATTTCCAGAAATCTGCCTCCTTACCCTC
CGTTGACAGTATATGTATGCCTCACTTTCTTCTAGCTGAGCTTTAAATCATTAGAGCTT
AAATTGTCAGATCGTTCAATTGCCTTTCCAGGGTATTTAGTAAAGTTTGTGAAAACAAA
AACGCCTTTTCTTGGTTCTTTTTTTCAGTTATTTTGAAGGTCCAGCATCCTGATTAAATGT
CTGACACATTAATGAATGACCAGCAGCAGCTTTCAGCTCTTAAAAAGACACTTATATTTT
GATTTTACATGCTGGTTACCTGTTCCATTGTTGTCAAATGCCCACTCTCCATCAGATGTG
TTCTCTCATTTTCTTATCCACAAAGTACTCCTCACTTTTCAATTTGTGATGTTACTAAAT
GGTGTACATTAAAGCCCTGTGTTAAGTGTC

Gene 308. >ENST00000328856 cDNA sequence

GCTCAGTTGCCTGAGGACAGCAGTGACAGTTGACATGGATATTCTCTTCTCTGGACAGT
GTTATTGGTACAGAGCTGTGCCCCAGCCCCATTCCCAGATCATCCATTTTCGTCTCTTT
GTTGTGTTTCAGCCTGGTGATCCTGATTATCTTACGCCTCTACATTCCCAGGGAGCCGTCC
TCAGTGCCTCCCAGAGAGGAGGACAGCGAGAATGATCAAGCTGAAGTGGGGGAATGGCTC
AGGATCGGAAATAAATATATCACTTTGAAAGATTACAGAATTCTCTTGAAGAAGCTCTTAGGGAGGGC
AACCTTGAGATCTACACTTTCTGTGCAAAAAGTGCCTGAAGAAGCTCTTAGGGAGGGC
AGCTCCCATCACCTTCCACGCCAAGTCCGCCAGGGCCAGTGACAAACCAGCACCTGCT
AGGAACCACCGGCCACGTGGGGGGCGTGGGAAAGCTTCTCCCACCAGCTTCCATGTGTCC
CCACGGGCTCCCCTGGCTCCTCTGGCCTCCATGCCGTATCAGTCCCGAAGACCTCCGTA
GAGTCTTTGGGGTCTCCATCATCCCTGAGCTCCTCCAAGCCACGAGAGCCTCTGTGTCCC
CTGAAGCACCTTCCACACCAGCCACCTGCGAGCACCTATCACCAAACCCGACCAGCTCC
ACAGAATCCTTGGGGTATCTGTATCCCTGAGCTCCTCCCAGCCACCAGAGCCTTTGCGT

FIGURE 1 (CONT'D)

CCCCTGAAGCACCCCTTCACACAAGCCACGTGGGCGTTCCCTTCCCCGACGACGGAATCCT
GGCTGGGTGTCTGGTCCGACTCCATGCAGGCTGATTCCGAACTGACACCATAATATGC
CCAATGTGCAAGGCCCTGAGCGCTCCTGTCCACACACCTGGTGGGTGCCTTCTAGCCCT
CGAGTGATCCGAGGCGTTGGTGCCTGCAGTGATCCCAACCTGGGCCTCTCCTGGAGGCAG
GAGGCTGCTAGAGCCTGGTGCCACTGCACCTCCTCACAGTTCCTATTCAAGCACCTAAT
CTTCCCACCCACCTACCAAAGGCTTCTTCTAGGGAGACCCACATGCAGGCAGGTGGAG
GCAGGGGTCCCGCTTCTCAGCCTGGATGTGCCAACGCTGCTGGACGCATAAGACACCA
AAATCCCAGACACTCCCATGGACACCGAATATCCGACATCCACGAACAATTGGGAATCTC
CTGAGGACAACTTGGAGGTGCGTCCCCTCATCTGCGCACCCACAGATGCTGGAAATGCA
TGTTCTAATGGATTGGGAGAGACGGAGATGGGGTCCAAACCTCCAGTCCCTGGAGCCCGT
AAATCTCCTTGGGAGGCTTGGCGCCACAGAGACCTCTTCCACAGCGCTGCACACACAGA
TCTTCTTCTTAGAGGATCTGAACTCACTTAGAAAACCTGCCAGCACAGGAGGGATAACAT
CAGCTGTGCCCCCACTGGAGAACCAGAGACTCTGGGTCAATTGTCAACATTGCCCCCAG
AATGGGCTCTCTGCTGGGGAAGATGCTCAGGAATTGCTGCTCTTTTGCAATGCCAGTCTC
TCCTAACAGAACTGCAGATTCCACGTGTAGACCTGCAAACCTTCTGTTCTCTGCAGTTCCT
TGAGTCACAGTTTACACAATCACAATTTTTTTTTTTTTTTTTAGATGGAGTCTCACTCTG
TTGCTCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACCACAACCTCCGCCTCCCGGAT
TCAAGCCATTCTCCTGCCTCAGCCTCCCGAGTAACCTGGGATTACAGGCTTGTGCCACCGC
ACCCAGCTAATTTTTGTAAATTTTAGTCGAGAGAAGGTGTCAACATGTTAGCCAGGCTTGT
CTTGAACCTCTGACCTTGAGATATCTGCCACCTCAGCCTCTCAAAGTGCTGGGATTATA
GGCTTGAGCCACCACGGCTGGATGAATCATAAATTGTAAACCTGAATAAAATGCTGCAAC
CTCCAATGAGAGG

Gene 309. >ENST00000316131 cDNA sequence

CAGGACAGCTGGCACAAGCACCAAGACCGGGGGCAAGAGAACGCCCAACGACGAGAAG
TGGAAGTATGAGCTGGGGCGCCCTGCTGCCAATGCCAAGATCAGCCCCACCACATCCAC
ACAGTCCGTGTGCAGGGAAGTAACAAAAATACTGTGCCCTGAGGCTGGATGTGGGGAGT
TTCTACTGGGGCTCAGAGTGTGTAAATTGCAAAACCAGCATCATCGACGCTGTGACAAT
GTGTCCAAGAATGAACTGGTCCGTACCGAGACCCCGGTGAGGAGCTGCATCACACTCATT
GACAACACACTGTATCAGCAGTGGTACGAGTCCTACTATGTGCTGCTCCTGGGCCGCAAG
AAAGGGGCCAAACTGATTCTGAGGAGGAAGAGATTTTAAACAAAAAGATAACATTTCAG
AAGAAGTATGATGAAAGGAAAAAGAATGCCAAATCAGTCTTCTGGGGAAGCAGTTCCAA
CAGGGCAAGCTTCTGCGTGCATCGCATCAAGGCCGGGACATTGTGGCCAAGCAGATGGC
TACGTGCTAGAGGGCGAGGAGTCAGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAG

Gene 310. >ENST00000332929 cDNA sequence

GTAGCACTGCTTTTTTGGAGGCCAGTAGCAACATCCAGAGATCATTCTTCCATACTTTACT
CCCTCCTTTTTTCACTTGTGTGTAAAGTACAGAATCTGAATTTAGCCTTTATGATTGTA
TATGATCCACAGAAGACCTGATTTATGAAATTTTGTACTAAAATCATTTGGAAATGATTG
TATTGTAACTGAGGCTAAATTTTTTTTTTAAACCTGTTTCATGTGTTATAAAGGCCAGCT
TGTAAGAAGCTGCAACAGACTTTCTCTGCTCATGATTTGCACTCTTAGGGTTTTGTTA
GCCCTTTTGTACTACTTTCTTTTTTAAATTGAGAACATGGTTCTTTACATATAAATCTGCT
TCAACCTTAGGATGTTTTTCAAGCAGAGGCAACTTATTCATGAATTTTTATGAAAATAT
CTACTAGGACAGATAAGCTGAACAGTGATGATCTGTAGACATTTATGGACTGAATGTAAT
GGTTGATATATGTACATTCTGATATTTTTTAAATCTTTAACTTTTTTAAAGTTAAAAACCTA
CAGCTGCTTAGGTCCAGCTTCTTAACTCTTTTTGAGACACTTCCTGTCTATCTCCACTG
TGCCTGCCTAAATTTGTTCTCACCAGCACTGCCTGTGCATGCAGAGAAAATCTGTGCAT
CCTCTTTTATATTTTTTAAATACTGTTTAAACATTTGTGAGAATTTTATGAAAATGCTTTT
GTATGAGCTGTGGCTTTTTCCCATTGTGAAGCATTGAATATCACATTTTGGAACATGTTA
TAGGGTGAGTCCCTGGATCTTTGCTCACCAGATCCAAGCACTGCTTCTCGGTGTCATTGC
AGTGTGCTGCTTGTCAACCAGAATACTACTATCATGTGAATCTTTTTGTGCTCAGTGTG
TTTTCTTAGTCTTTTTGTTGTTGTTGTTGTTGTTGTTTAAATCATTCTTTTTTAAGAA
GAAGTAATTTTCATTTATGAAGCAGTATGAATTAGATGTATTTTCAAACAGGTCCCTA
AGACAATCTTCAGATCATTTTTTAAATGACTAAGTCATTTTAGTATGTCAAGCAAGATA
AAAATTACATCATACCGTCTATTTTGCCCATAGTGCCATTTAGAGATGAAAACAGCTTT
AATTTGCAAAGTGAACATGTACATGGTCTGCTCTCATTTATTATTCTTCTCTCAAAG

FIGURE 1 (CONT'D)

TCAAATGAATGCAGAGGGAGCTTGGTCAAACCTGCTTTTGTTCCTGCAAGGCAGGGGAG
 CAAAAGGACGCCATGTGAGCATTAGGAAAAAAATACTCACTCTTACTAACAATTTTAT
 ACAGAAAATGAGTCATTTTGGAAATGATTCTTATGTTTTTTTTTTCTCCTTTTAGAAA
 ATTCTCCAAAAGGTTTTGATGTTGAATCTTGGTCTTGGACCTGTTTTTCTTTGAGGGT
 TTTTTGTTTTTTGTTTTTCTAGGATTTCAATTGTGATGTTTTGGTTTTGTTTTTGCTTT
 TTGTTTAAAGTTGTGCTGACACCAAACACATCCAGTTTATAATCAGTACATTGGAAAGCTG
 GTATTGATGTAGAACCAGTGCATAACTTTTTATGGGGTTTTGTTATTGGTTTTTTTTTGT
 AAAGTGTGAATAAAAGGTATGTTTACTCATTTTTCTGAACTGTGTTGGTAATGTGCA
 TCATGACAATTTCCAGTGAAGGTGAGCTGGAGCTGGTTGGACTAATGAGACTGAGGAAGC
 AGCTTTTCTACGATCTGCATTATGTAATCACAGGTCCAGAGAGCTTTATGGAAGCGGGA
 GAGGAGGAGCACTTACTCATGTTGTATTTGTTAATGGAGGATGTCATCTTTTCATAGATG
 CTGGAAGTAGAGTGCATTGTTAGATGCTAAAGGTTTGAGCTTTACACAAAATGTCTTCA
 TCTGTATTTGTTATTGTCTACAATATATTTGAATTTGGGGCAGCATATTAAGATGTAATG
 GCCTGTTATGTCTTGAAAATACTTGTTTTGCCTCTTCCAGGCATACTGCATTCTGTGGAT
 CAGTTTGAACAGCTTCTCCACCTTATTTGGACAGTGATAAATTGAACCAAGAGTGTAGAT
 TTACAAGTGTAAACCTTCAAAGAGGAAGAAGTATTTGGGGTCTGTAGGTAATGAACAGTC
 ACACCAAATAGACTATGATGCTTTTGTAAAGAAAGGTTTCATGTTTTAGATATTTCCG
 TGTCTAAATAATTTTTCAATAATCTATAATCCCTAAAATGCAATAAAAACTAGTATGTTT
 T

Gene 311. >ENST00000328081 cDNA sequence

GGGGTGAAGCCATACAAATGTAAACAATGTGAGAAAACCTTCATTTCTCTCACAATGTC
 CAAAGACACATGGTAACACACACTGGTAACAGGCCTCATAAATGTAAGAAATGTGGGAAG
 ACATTTAAGTTTCTCTATTTACTTCAAAGACACAAAGTAATTTACAACGGAGAAAAACCC
 TGTGAATGGAAGAAAGGTGGTAAAGCCTTGAGATTTTGCAGTTATTTTCAAAAACATAAA
 AGAACTCACAGTGGGGAAAAACCTTATAAATGTGAGAAATGTGAGAAAGCCTTTGGACAT
 TCTGGTTACCTTCATAACCATAAAGGTGCTCATGCTGAAGAGAAACCCCGTGAATGTAGG
 AAATGTGGGAAACGATTCACTTTTTGTAGTTACTTTCAAAGACATAAAGAGCTCTGTGAA
 AAATCTTCCATGTGTTTAAAGAAATATGGTAAAAGACTCACTCTTTCCAGTTCCATTGAGA
 AACATAAAAGAAATAATACTGGAGAGAAACCTTATAAATGTAAGAAATGTAGCAAAGCCT
 TCAGTCATCCCCGCTCCATGTGAAGACATCAAAGAACACATATTGGAGAGAAATCCTATA
 ACTGTAAAAAATGTGGCAAAGCCTTCAGTCAACACAGTTCCCTTAGAAGACATGAAAGAA
 CTCATACTGGAGAGAAACCAATGAATGTCAAAAATGGGATAAAGGCTTCAGTCGACATT
 CCAGTTCTCTATGTAAACATGAAAGAACTCACACTGGAGAGGAACCTTTGACTGTAAGG
 AATGTGGTCAAGTCTTCAGACATTCCAGTTCTCTACGTAAACATGAAAGAACTCACACTG
 GAGAGAAACCTTTGACCGTAAGGGATGTGGTCAAGTCTTCAGACATTCCAATTCTCTAT
 GTAAACATGAAAATCTCACACTGGAGAGAAACCTTTGACTGTAAGGAATGTGGTCAAG
 TCTTCAGACATTCCAGTTCTCTATGTAAACACGGAAGAACTCACACTGGAGAGAAACCTT
 TTGACTGTAAGGGATGTGGTCAAGTCTTCAGACATTCCAGTTCTCTATGTAAACATGAAA
 AATTTCACTGGAGAGAAACCTTTGACTACTTGCAATGTGGTGAAGTCTTCAGATATT
 CCAGTTCTCTATGTAAACATGAAAGAACTCAAACCTGGAGAGAAACCTATGACTGTAAGG
 CATGTGGCAAAGCCTTTAGATATTCCAGTCCTGTATGTAAACATGAAAAAATCATACTC
 TGTAGAAATCCTGAGAATGTAAGGATTTGGGGAAAAACATTCACTTAATTCACTTATCTTT
 GAAAACATGAAAGAAATTATACTGGAG

Gene 312. >ENST00000292641 cDNA sequence

CGCGCCCCGAGCCCCCGCGCCATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTG
 TCCTGCAGCTCCGCTGCTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTC
 GCTGCGCTGGAGTCGGCGGCGGAGGCCGGGGCCGGGACCTGGCCAACCCCTCGGCACC
 CTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCACCTCATAGAG
 GGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCAGGCCGTGGGGGCCGTGAAGGCCCTG
 AAGGCCCTGCTGGGGGCCCTGACAGTGTGTTGGCTGAGCCGAGACTGGAGCATCTACACCT
 GAGGACAAGACGCTGCCACCCGCGAGGGCTGAAAACCCCGCCGCGGGGAGGACCGTCCA
 TCCCCTTCCCCCGGCCCTCTCAATAAACGTGGTTAAGAGC

Gene 313. >ENST00000261951 cDNA sequence

CTTTTCTTAACAGGCATGCCCAAAGAAAAATACGAGCCCCCTGACCCTCGGAGGATGTAT

FIGURE 1 (CONT'D)

ACAATTATGTCTTCTGAGGAAGCAGCAAATGGAAAGAAATCCCACTGGGCAGAGCTTGAA
ATAAGTGGAAAAGTAAGAAGCTTAAGCGCATCTTTGTGGTCACTAACTCACCTGACAGCT
TTGCATTTGAGTGACAATTCCCTGTCCCGAATTCCTTCAGACATTGCCAAGCTTCACAAT
CTGGTGTATTTGGACCTGTCTCTAATAAAATTTCGTAGCTTACCCGCAGAACTCGGAAAC
ATGGTATCACTCAGGGAGCTCCATTTAAATAACAACCTGTTACGAGTTCTACCTTTTGAG
CTGGGAAAACCTGTTTCAGTTGCAGACTTTAGGCCTGAAAGGAAATCCCCTTACCCAGGAT
ATATTGAACCTTTATCAGGAACCAGATGGAACAAGACGGCTGCTGAACCTATTTGCTTGAT
AATTTGTGAGGTACTGCAAAAAGAATTACAACAGAACAACCACCTCCAAGGTCTTGATT
ATGTTACAAGAACCAGATAGGACAAGGCCAACTGCCTTGTTTTCTGTCTATGTGCTATAAT
GTTCTTTGTGATAAATATGCGACCCGGCAGTTATACGGCTACTGTCCATCATGGGCGCTA
AACTGGGACTACAGGAAAAGGCCATTATTCAAGAAATCTTGAGCTGCAATGCTGATATC
GTAAGTCTTCAGGAGGTTGAAACGGAACAGTATTACAGTTTTTTTTCTGGTAGAGCTGAAA
GAACGTGGCTATAATGATTCTTCAGTCCTAAGTCTAGAGCTAGGACAATGTGAGAACAA
GAAAGGAAACATGTTGATGGCTGTGCAATATTCTTCAAGACAGAAAAATTTACTTTGGTT
CAGAAACACACTGTTGAATTTAATCAGCTAGCCATGGCAAATTCAGGGGGTCTGAAGCT
ATGCTGAACAGAGTCATGACAAAAGATAACATTGGGGTTCAGTACTGCTAGAACTTCGG
AAGGAATCGATTGAAATGCCGTCCGGAAGCCACATCTTGGAACAGAAAAACAATTATT
CTTGTGGCTAACGCCACATGCATTGGGACCTGAATACTCTGATGTGAAGTTGGTACAA
ACTATGATGTTTCTCTCAGAAGTGAAGAACATTATTGATAAAGCCTCTCGCAACCTCAA
TCCAGTGTTTTGGGAGAATTTGGAACATTCCACTTGTGTTATGTGCAGATCTTAATTCT
TTGCCAGACTCTGGTGTGTAGAATATTTGAGCACAGGTGGAGTAGAAACAAATCACAAA
GACTTTAAGGAGTTGAGGTATAATGAAAGTCTCAAACTTCAGCTGTCTATGGGAAGAAT
GGAACCACCAATGGAAGGATCACTCATGGTTTTCAAGTTACAGAGTGCCTATGAGAGTGGC
CTGATGCCTTACACGAATTACACATTTGATTTCAAGGTATAATAGACTACATTTTCTAT
TCTAAACCTCAGCTGAACACCTTAGGCATCCTGGGCCCTCTGGACCACCACTGGCTGGTT
GAGAATAACATCAGTGGCTGCCCGCACCCCTCATCCCCTCTGACCACTTCTCACTTTTT
GCACAACCTGGAGCTCTTACTGCCTTTCTGCCCAAGTCAACGGCATCCACCTTCCTGGC
AGGAGGTAG

Gene 314. >ENST00000261937 cDNA sequence

CCCACGCGCAGCGGCCGGAGATGCAGCGGGGCGCCGCGCTGTGCCTGCGACTGTGGCTCT
GCCTGGGACTCCTGGACGGCCTGGTGAGTGGCTACTCCATGACCCCCCGACCTTGAACA
TCACGGAGGAGTCACACGTATCGACACCGGTGACAGCCTGTCCATCTCCTGCAGGGGAC
AGCACCCCTCGAGTGGGCTTGGCCAGGAGCTCAGGAGGCGCCAGCCACCGGAGACAAGG
ACAGCGAGGACACGGGGGTGGTGCGAGACTGCGAGGGCACAGACGCCAGGCCCTACTGCA
AGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGTCTGCTACTACA
AGTACATCAAGGCACGCATCGAGGGCACCACGGCCGCCAGCTCCTACGTGTTTCGTGAGAG
ACTTTGAGCAGCCATTATCAACAAGCCTGACACGCTCTTGGTCAACAGGAAGGACGCCA
TGTGGGTGCCCTGTCTGGTGTCCATCCCCGGCCTCAATGTACGCTGCGCTCGCAAAGCT
CGGTGCTGTGGCCAGACGGGCAGGAGGTGGTGTGGGATGACCGGCGGGGCATGCTCGTGT
CCACGCCACTGCTGCACGATGCCCTGTACCTGCAGTGCAGACACCTGGGGAGACCAGG
ACTTCCTTTTCCAACCCCTTCTGGTGCACATCACAGGCAACGAGCTCTATGACATCCAGC
TGTTGCCCAGGAAGTCGCTGGAGCTGCTGGTAGGGGAGAAGCTGGTCCTGAACTGCACCG
TGTGGGCTGAGTTTAACTCAGGTGTACCTTTGACTGGGACTACCCAGGGAAGCAGGCAG
AGCGGGGTAAGTGGGTGCCCGAGCGACGCTCCCAGCAGACCCACACAGAATCTCCAGCA
TCCTGACCATCCACAACGTACGCCAGCACGACCTGGGCTCGTATGTGTGCAAGGCCAACA
ACGGCATCCAGCGATTTCCGGAGAGCACCGAGGTCAATTGTGCATGAAAATCCCTTCATCA
GCGTCGAGTGGCTCAAAGGACCCATCCTGGAGGCCACGGCAGGAGACGAGCTGGTGAAGC
TGCCCGTGAAGCTGGCAGCGTACCCCCCGCCGAGTTCCAGTGGTACAAGGATGGAAAGG
CACTGTCCGGGCGCCACAGTCCACATGCCCTGGTGTCAAGGAGGTGACAGAGGCCAGCA
CAGGCACCTACACCTCGCCCTGTGGAATCCGCTGCTGGCCTGAGGCGCAACATCAGCC
TGGAGCTGGTGGTGAATGTGCCCCCAGATACATGAGAAGGAGGCCTCCTCCCCCAGCA
TCTACTCGCGTCACAGCCGCCAGGCCCTCACCTGCACGGCCTACGGGGTGGCCCTGCCTC
TCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCTGCAAGATGTTTGCCAGCGTAGTC
TCCGGCGGCGGCAGCAGCAAGACCTCATGCCACAGTGCCGTGACTGGAGGGCGGTGACCA

FIGURE 1 (CONT'D)

CGCAGGATGCCGTGAACCCCATCGAGAGCCTGGACACCTGGACCGAGTTTGTGGAGGGAA
AGAATAAGACTGTGAGCAAGCTGGTGATCCAGAATGCCAACGTGTCTGCCATGTACAAGT
GTGTGGTCTCCAACAAGGTGGGCCAGGATGAGCGGCTCATCTACTTCTATGTGACCACCA
TCCCCGACGGCTTCACCATCGAATCCAAGCCATCCGAGGAGCTACTAGAGGGCCAGCCGG
TGCTCCTGAGCTGCCAAGCCGACAGCTACAAGTACGAGCATCTGCGCTGGTACCGCCTCA
ACCTGTCCACGCTGCACGATGCGCACGGGAACCCGCTTCTGCTCGACTGCAAGAACGTGC
ATCTGTTTCCGCAACCCCTCTGGCCGCCAGCCTGGAGGAGGTGGCACCTGGGGCGCGCCACG
CCACGCTCAGCCTGAGTATCCCCCGCTCGCGCCGAGCACGAGGGCCACTATGTGTGCG
AAGTGCAAGACCGGCGCAGCCATGACAAGCACTGCCACAAGAAGTACCTGTGGTGCAGG
CCCTGGAAGCCCCTCGGCTCACGCAGAACTTGACCGACCTCCTGGTGAACGTGAGCGACT
CGCTGGAGATGCAGTGCTTGGTGGCCGGAGCGCACGCGCCAGCATCGTGTGGTACAAAG
ACGAGAGGCTGCTGGAGGAAAAGTCTGGAGTCGACTTGGCGGACTCCAACCAGAAGCTGA
GCATCCAGCGCGTGCGCGAGGAGGATGCGGGACGCTATCTGTGCAGCGTGTGCAACGCCA
AGGGCTGCGTCAACTCCTCCGCCAGCGTGGCCGTGGAAGGCTCCGAGGATAAGGGCAGCA
TGGAGATCGTGATCCTTGTGCGTACCGGCGTCATCGCTGTCTTCTTCTGGGTCTCCTCC
TCCTCATCTTCTGTAAATGAGGAGGCCGGCCACGCAGACATCAAGACGGGCTACCTGT
CCATCATCATGGACCCCGGGGAGGTGCCTCTGGAGGAGCAATGCGAATACCTGTCTTACG
ATGCCAGCCAGTGGGAATTTCCCCGAGAGCGGCTGCACCTGGGGAGAGTGCTCGGCTACG
GCGCCTTTCGGGAAGGTGGTGGAAAGCCTCCGCTTTCGGCATCCACAAGGGCAGCAGCTGTG
ACACCGTGGCCGTGAAAATGCTGAAAGAGGGCGCCACGGCCAGCGAGCACCGCGCGCTGA
TGTGCGAGCTCAAGATCCTCATTACATCGGCAACCACCTCAACGTGGTCAACCTCCTCG
GGGCGTGCACCAAGCCGAGGGCCCCCTCATGGTGATCGTGGAGTTCTGCAAGTACGGCA
ACCTCTCCAATTTCTGCGCGCCAAGCGGGACGCCTTCAGCCCCTGCGCGGAGAAGTCTC
CCGAGCAGCGCGGACGCTTCCGCGCCATGGTGGAGCTCGCCAGGCTGGATCGGAGGCGGC
CGGGGAGCAGCGACAGGGTCTTCTCGCGCGGTTCTCGAAGACCGAGGGCGGAGCGAGGC
GGGCTTCTCCAGACCAAGAAGCTGAGGACCTGTGGCTGAGCCCGCTGACCATGGAAGATC
TTGTCTGCTACAGCTTCCAGGTGGCCAGAGGGATGGAGTTCTGGCTTCCCGAAAGTGCA
TCCACAGAGACCTGGCTGCTCGGAACATTCTGCTGTGCGAAAGCGACGTGGTGAAGATCT
GTGACTTTTGGCCTTGCCCCGGGACATCTACAAAGACCCCCGACTACGTCCGCAAGGGCAGTG
CCCGGCTGCCCCCTGAAGTGGATGGCCCCCTGAAAGCATCTTCGACAAGGTGTACACCACGC
AGAGTGACGTGTGGTCTTTTGGGGTGCTTCTCTGGGAGATCTTCTCTCTGGGGGCTCCC
CGTACCCCTGGGGTGACAGATCAATGAGGAGTTCTGCCAGCGGCTGAGAGACGGCACAAGGA
TGAGGGCCCCGGAGCTGGCCACTCCCGCCATACGCCGCATCATGCTGAACTGCTGGTCCG
GAGACCCCAAGGCGAGACCTGCATTCTCGGAGCTGGTGGAGATCCTGGGGGACCTGCTCC
AGGGCAGGGGCTGCAAGAGGAAGAGGAGGTCTGCATGGCCCCGCGCAGCTCTCAGAGCT
CAGAAGAGGGCAGCTTCTCGCAGGTGTCCACCATGGCCCTACACATCGCCCAGGCTGACG
CTGAGGACAGCCCGCCAAGCCTGCAGCGCCACAGCCTGGCCGCCAGGTATTACAACTGGG
TGTCCTTTCCCGGTGCCTGGCCAGAGGGGCTGAGACCCGTGGTTCTTCCAGGATGAAGA
CATTTGAGGAATTTCCCATGACCCCAACGACCTACAAAGGCTCTGTGGACAACAGACAG
ACAGTGGGATGGTGTGCTGGCCTCGGAGGAGTTTGGAGCAGATAGAGAGCAGGCATAGACAAG
AAAGCGGCTTCAGCTGTAAAGGACCTGGCCAGAATGTGGCTGTGACCAGGGCACACCCTG
ACTCCCAAGGGAGGCGGCGGCGGCTGAGCGGGGGGCCCCGAGGAGGCCAGGTGTTTTACA
ACAGCGAGTATGGGGAGCTGTGCGAGCCAAGCGAGGAGGACCACTGCTCCCCGTCTGCCC
GCGTGACTTTCTTACAGACAACAGCTACTAAGCAGCATCGGACAAGACCCCCAGCACTT
GGGGGTTTTCAGGCCCGGCAGGGCGGGCAGAGGGCTGGAGGCCAGGCTGGGAACTCATCTG
GTTGAACTCTGGTGGCACAGGAGTGTCTCTTCCCTCTCTGCAGACTTCCAGCTAGGAA
GAGCAGGACTCCAGGCCCAAGGCTCCCGGAATTCGTCAACACGACTGGCCAGGGCCACG
CTCCAGCTGCCCCGCGCCCTCCCCCTGAGATTGAGATGTCAATTTAGTTTCAGCATCCGCAG
GTGCTGGTCCCGGGGCCAGCACTTCCATGGGAATGTCTCTTTGGCGACCTCCTTTCATCA
CACTGGGTGGTGGCCTGGTCCCTGTTTTCCACGAGGAATCTGTGGGTCTGGGAGTCACA
CAGTGTGGAGGTTAAGGCATACGAGAGCAGAGGTCTCCCAAACGCCCTTTCCTCCTCAG
GCACACAGCTACTCTCCCCACGAGGGCTGGCTGGCCTCACCCACCCCTGCACAGTTGAAG
GGAGGGGCTGTGTTTCCATCTCAAAGAAGGCATTTGCAGGGTCTTCTTCTGGGCCTGACC
AAACAGCCAACCTAGCCCCTGGGGTGGCCACCAGTATGACAGTATTATACGCTGGCAACAC

FIGURE 1 (CONT'D)

AGAGGCAGCCCGCACACCTGCGCCTGG

Gene 315. >ENST00000274773 cDNA sequence

CTGCAGCCTGCCTGGAAGCTGAAGGAAAGGTGGGGGCATTGTAGGACACCTTGAACCCAG
GTCTCCCAACTTCACAGGACTCCCTTCCTCCGCCAGGAGTTTAAAGGAAGAGGAACTTC
CTGGTGGGACATATTGAGTGCCAAACGTGTGTTACATAAAAAATCAAGAGATCAGGGCA
TGAGTCTGCATCTGAAAACTCGAGTAAAAAATCCGGTGTATGCTGTTAATGGAAAGAACA
GAATATGACACTTGCATGCCGCATATTCTCACTTCGTTCTTGGGGGTGTGCTGCTACCT
CTGGTCACTGGCATCGGACTTTTCTTCTTCTTCTACTTTCTACATCTCCCAAGTTTTT
GTATTTTGGAGCATGTGTTAGCATTATAACTGCTAAACAGGAAAGATGGCCTTTAAAAAGA
AAGTGAAGTGTAAAAGTTTGAGGGTGATGAAATAAATGTGCTTGAGGAAGAAAAAGCAAT
CTCAGTTTAAATCCTATGGTTGCCCGAGGAGGCACTAATTTATCCCTTCTGCTTTTCAAGT
GAGGAAGCTGCAGCTTGGCGTAGTTCTGGGGGGAGTATGAAGCTGCCTTGGTTTAGGTGA
TGGAGCACAGGTCCACAGACATGTGTGGGTGCATCTGTGGCAGGGGAGAAAAGAGCATGT
GTCCAGACTACAGCTTGTTTCAAGCTGGGACACTGACAATAGAGCACGCACTGCGTGCCT
AGGTGGGTGTGTCTCCGATCCTCCAGCAGTGACAGGGACGAAGCCTTGCCCTGTGGGATG
ACTCAGGCCACTGGCCAAATGTTATGTCTCCATGTTCAAGTCCCTCTCCAACCTTCTCTC
CTGGGACAGAAACAGATGGCAGCGGAGCAGGAGAAGGTGGGGGCAGAGTTCCAGGCACTG
AGGGCTTTTCTGGTGGAGCAGGAGGGTCCGCTGCTAGGCCGCCTGGAGGAACTGTCCCGG
GAGGTGGCACAGAAGCAGAATGAGAACCTGGCCAGCTCGGGGTTGAGATCACCCAGCTG
TCCAAGCTCAGCAGCCAGATCCAGGAGACAGCTCAAAAGCCTGACCTTGACTTTCTCCAG
GAATTCAAAGACACGCTGAGCAGGTGTAGCAATGTGCCTGGCCCCAAGCCAACACAGTC
TCTTCTGAGATGAAGAATAAAGTCTGGAATGTTTCTCTCAAGACCTTTGTCTTAAAGGG
ATGCTGAAGAAGTTCAAAGAGGACCTTCGGGGAGAGCTGGAGAAAGAGGAGAAAGTGGAG
CTCACCTTGGATCCCGACACGGCCAACCCGCGCCTCATCTCTCTGAGATCTTAAGGGC
GTGCGCCTCGGCGAGCGGGGCCAGGACCTGCCCAACCAACCCCTGCCGCTTCGACACCAAC
ACCCGCGTCTCGGCGTCTGCGGCTTCTCTCGGGCCGGCATCACTGGGAGGTGGAGGTG
GGCTCTAAGGACGGCTGGGCCTTTGGCGTGGCCCCGAGAGCGTGCGCCGAAAGGGCCTG
ACGCCCTTCACTCCCGAGGAGGGCGTCTGGGCCCTGCAGCTCAACGGCGGCCAGTACTGG
GCCGTGACCAGCCCCGAGCGGTGCCCCCTCAGCTGCGGGCACCTGTGCGCGTGCAGGGTG
GCCCTGGACCTGGAGGTGGGAGCCGTGTCTTCTACGCTGTGGAGGACATGCGCCACCTC
TACACCTTCCGCGTCAACTTCCAGGAGCGCGTGTTCCTCGCTTTTCTCTGTTTGCTCCAG
GGCACCTACTTGCGAATCTGGCCTTGAGGGGCACTGCTGGGGAGCTCCTGTCTCTGGGCT
GCCGGTGGGAGGGGATGTGCGCTCCCCAGAGATGCCTGGTCCGTCTTGGGTCTGCCCTCC
GTGCTCCTGACCCCTGCTGCCCAAGAGAGCCTGCTACAGACACAACCCCGAGGCAGGAGA
GTGACTGTGGCCAACCGAGCAGGGGAACAGGGGCTTTGGACTCCTGAGGGTGTTCCTTTC
CTGAGGTACATGTGGATTTTGGCCAGAGCCTTCAGGAGGTGGAGGCCGGTGAGGTGAGGA
GCCAGCTCTCCAGGGGGCTTCTGCCCTGACTGGGAAGGGTGCCTGGCTCCCTAAAACAA
TGTCAAAGCCAGTCTGCTGTTCTCTGTTGCCAGGGGGCAGGTCTGGGCCTGGGCCAACC
ACGTTTGTATCATGGCTGCTGCCTTCTGGACAGCTGCCAGCTCTGCCTTGAGAGGTTGT
GGGACCTCTGGATCCAGCTGACCTGACAGGTCTACTCAGGGAGGAGCCCTGTGCTCC
CAGCTCAGAGGACAGTCTGGGCCAGAACTGGAAGGAGACA

Gene 316. >ENST00000327725 cDNA sequence

AATTTTAGAAGGAAAAAATTTATTTCAGATGATGTGATAGCCATGTCACTGTTAAGCCTGA
ACTTTTCTTCTGGGTGGTGTGAAAGGTGCAAGAAAACACAAGCTGCTTTTAATAACAC
TCTTGCACTGCTTCTCCCCAAAGCTAGATATATCAAAACATTAAAAAATAAAAAAGCTT
TTTAAGGTGTAAGGAGCAAATGGAATAGTGGATAAAGCCTTTTCATCTGTTTAGTCATTT
TACACCCAAGTTTCTCTGGAGTATTTGCCTGGAAGTTTCTAATCAAAACCATTAGACTTT
GAGTTTCAAACTCCTCTTGAAGCTCTTCCAGTGAGGCCTGCACATCGGTATGAAACAC
ATTCTTTCCAAAAGCTACCACTGGTAGATTTTAAGAACAAAGCTCAGGAGCACATCACTCA
AAATAATTCCAAGTATTTCACTTTTCCCTTCAAATAACACTTCATGAATCTGGTCCTTG
AAAGACTAGCCAAGAAAATTAGACATTTTATGATTAGTTTGCTCATACATACATTTGCT
ATATTTTATGGTTGTATTTTGGCAAGTTTGTGTTGATGTATTTTATAATGAACGGCGA
AATTGGTGTGTTGCCATTGACATTTTCACTGTCAATGTATTTTAAGCTTCAGTGTGTTAAA
ACTCTGTTGAAAATTTTAACTTTTGAATGTTCAAGTATAGATTATTTTTCATTGTTCTT

FIGURE 1 (CONT'D)

CCAACCTTGGGGTTGTTCTGTCCACAAGTTCAGCAGAATCCGTTTTTCTTTGGCAACCAA
GAAACTTCAATATGTAACAGAAAAATGGAATGGCATTAGATCTTCAAAAAGCAGGGCA
AACTGGAATGGAATGTACTGTTTCTCACAGTGGTCTATGCTGACAGCAAGGCTGAAGATT
TCCAGTAGGTTATGGGTAATCAGTGAAAGTTTATGCTTGGTGGTGACAGCTGCAGTACAT
CTTGAATACCAGTTTTCTTCAATCTTTGCCAAAAACCCAAATTTAACACAGTTTGCTGTA
GTGCCATTAAAGATATACTCCTATACAATTTCTCCTCAACTCGGTTCAATTTGATACAGCTGC
AAAAATACTGTCTTTGGTGGTCAAGTAGAAGGCTCACGAAAACAGCACACCCACAGTTTT
GAAAGCCTTATTCTGAATGTAAGCAAAGTACAGTTTTCTTCATCAGTAGATTTCATCTCAA
CCAACAGCAATAAAAGATGAGCCGATTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTCTAT
TGCCAGGCTGGAGTGCAGTGGCTCAGTCTCGGCTTACTGCAAGCTCCGCCTCCAGGTT
CATGTCAATCTCCTGCCTCAGCCTCTTGCGAGCTGATGTTTTTTAAGATCTGAAGTTTGA
TATATACAGTCATTAAATTCAGAGTTAAGACTGCAGAAGTAGATGAAGAAATTCGGAATT
CCTTAATTTATTTGTGGCAGCACTCAGAATGCAAGGTTTCAAGTGTCTCCATTTTTTT
CTCCTTTGCAATTAAAAGGGCTGTTTAATATTAAGCTTTTACGGCTTGGAAGATTCTGT
GAATATTTCAATACTGTCCAGTCTTAAAGCTGCAGAGAATCGGGCTTTGCAGAACACTCC
ACTGTTTTTAATGGCATGAATTTAACAGTGTGTTGGCATGGTGTCACTGCCAACACTTTC
AGATAACTCAACTGAAGAAGTTGACCTATCTTCTGCAAAATAACATGAGTATATACTTG
AGAAAAGCCTCAACATTTTTTTTTTGGCTGCCATTTTTTAGCTACCTCAAAGGAGATAACAG
AAAAACAAGGAGTACTGATGATGGAAGCATCTGGTCCCTCTTGAGAGTGATGAATGATT
TTATTGGTGGCAGCTGGGTGGCAGGACAATCCAGGCATCCAGTTATGCCTGATCCCCAAT
AAGTGAAATCTTTGTTCAATTTCTTTTATACACCCGTCTGCTTCTTAAACCTGACACC
ATTTAATGGTGCCTTGGTCAAATCTAAATGATCTTACTTTTATAATTCTTTGATTCTAG
CTTGAGAGTCAAGACGAACTCTAACTCATGGGATGGACAACTGGAAGATGTAAATAA
GTAAGGCTTTCTGGGCCAAAAAGCCTCTTCTTACAGAAAATCAAATTTTAAAAGAACATT
GACCTCAA

Gene 317. >ENST00000315712 cDNA sequence

ATGAAAATAAATGACAGCTCAGGGGAAGACTTCATCTTAGTTGGCTTCTCAGAATATCCC
CAGGCTGAGTTCATCCTTTCTCTGTTTGTCTCCGGGTTCTACACCATGACATTCACAGGG
AACACAGCCATCATCTTGGTCTCTCTGCTGGAATACCGGCTCCGCACCCCAATGTACTTC
TTCCTCCGAAAGCTCTCATTTCTGGACATGTGTTTACCACCTGCATTGTCTTCAGATG
CTGGTGAACATCTGGGGAGAGAGTAAGAAGGTGAGCTATGTAGGCTGCATGGTTTCAAT
TCTGTAGCCTTGGCTCTTGGCTCCACAGACCTTGTCTGGTCTTCTGGGTTAGCCAACTC
TCTCTTTCACTCTTCACTAACCAACCATTTTTGCCTCTGTGTGGCCACCGCCGTGTGGACCA
TTTCTTTGTGAGGTCTGTCTCATTGTCAAGCTGTCTGCGTGGACACCGGCCCACTGAA
TTGAAGATGTTAATTGCTCGTGTGATCATCCTTGCCCTTCCAGTGTGCACCATCCTCACC
TCCTATGCCTGCATTGCCAGGGCTGTGCTGAGGCTGCAGTCTGCTGAAGGTGAGCAGAAG
GCCTTTGGGACTTGTGCCTCCACCTGATGGTGGTCTTGCTGTTCTATGGAACCATCATG
TTCATGTGTCTTCAGCTGAAGAGTAATACTCTCAGATTACAGGGAAGCTGCTTCTCTT
GTTTATACCATTGCTGCCCCACCTAG

Gene 318. >ENST00000315073 cDNA sequence

CTGGCGCGGGGTGGGACACCCCCATGCGGGATGAAGACTACGAGGGTGACATGGAGGAGG
AGGTCGAGGAGGAAGAAGAGGGTGTGTTCTGGACAGTGGCATGAGCAGGTCCAGCTGGG
ACAACATGGACTATGTGTGGGAGGAGGAGGACGAGGAGGAAGACCTGGACTACTACTTGG
GGGACATGGAGGAGGAGGACCTGAGGGGGGAGGATGAGGAGGACGAGGAGGAAGTGTGG
AGGAGGTTGAGGAAGAGGATCTAGACCCCGTACCCCACTGCCCCCGCCTCCAGCCCCCTC
GGAGGTGCTTCACATGCCCTCAGTGCCGAAAGAGCTTTCTCGGCGGAGCTTCCGCCCCA
ACCTGCAGCTGGCCAATATGGTCCAGGTGATTCCGCAGATGCACCCAACCCCTGGTTCGAG
GGAGCCGCGTGACCGATCAGGGCATCTGTCCCAAACACCAAGAAGCCCTGAAGCTCTTCT
GCGAGGTAGACGAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAACAGC
ACAGCGTGGTGCCATTGGAGGAGGTGGTGCAGGAGTACAAGGCCAACTGCAGGGGCACG
TGGAACCACTGAGGAAGCACCTGGAGGCAGTGCAGAAGATGAAAGCCAAGGAGGAGAGGC
GAGTGACAGAACTGAAGAGCCAGATGAAGTCAGAGCTGGCAGCGGTGGCCTCGGAGTTTG
GGCGACTGACACGGTTTCTGGCTGAAGAGCAGGCAGGGCTGGAACGGCGTCTCAGAGAGA
TGCATGAAGCCCAGCTGGGGCGTGCGGGAGCCGCGGCTAGTCGCCTTGAGAACAGGCCG

FIGURE 1 (CONT'D)

CCCAGCTCAGCCGCCTGCTGGCAGAGGCCAGGAGCGGAGCCAGCAGGGGGGTCTCCGGC
TGCTCCAGGACATCAAGGAGACTTTCAATAGGTGTGAAGAGGTACAGCTGCAGCCCCAG
AGGTCTGGTCCCCTGACCCGTGCCAACCCCATAGCCATGACTTCCTGACAGATGCCATCG
TGAGGAAAATGAGCCGGATGTTCTGTGAGGCTGCGAGAGTGGACCTGACGCTGGACCCTG
ACACGGCTCACCCGGCCCTGATGCTGTCCCCTGACCGCCGGGGGTCCGCCTGGCAGAGC
GGCGGCAGGAGGTTGCTGACCATCCCAAGCGCTTCTCGGCCGACTGCTGCGTACTGGGG
CCCAGGGCTTCCGCTCCGGCCGGCACTACTGGGAGGTAGAGGTGGGCGGGCGGCGGGGCT
GGGCGGTGGGTGCTGCCCCTGAATCAACCCATCATAAGGAAAAGGTGGGCCCTGGGGGTT
CCTCCGTGGGCAGCGGGGATGCCAGCTCCTCGCGCCATCACCATCGCCGCCGCGGCTCC
ACCTGCCCCAGCAGCCCCTGCTCCAGCGGGAAGTGTGGTGCCTGGGCACCAACGGCAAAC
GCTATCAGGCCCAGAGCTCCACAGAACAGACGCTGCTGAGCCCCAGTGAGAAACCAAGGC
GCTTTGGTGTGTACCTGGACTATGAAGCTGGGCGCCTGGGCTTCTACAACGCAGAGACTC
TAGCCACGTCACACCTTCTCGGCTGCCTTCTGGGCGAGCGTGTCTTTCTTTCTTCC
GGGTGCTCTCCAAGGGCACCCGCATCAAGCTCTGCCCTTGATTATCCTGCCACCCGCAGG
GGCCCCCTCTGTGAGCACTTGGGGGGTGGGTGGTGGAGGGTGGCCCGTAAGTTTGAGGGCT
CAAAGGCTCTTCCCACTGCTTGTTACTGTGTTGCTTCCCACTCCCCCTTGACCCAGGCC
CCTGCTTCTCCCTCTAGGAGCCTAAAGAACCCTCCTGGCCTCCAGCTCAGCCTTCTCTCA
CCTACTATGTCTGTCCAACAGGTCTGCATGGGTCCCTGATAATGAGAACAGCTGCCTGGT
CTTCTCTCCAGTCTGCCTAGCCAGCCCTGGGACTGGAATTTGAGTAGGGGATGAGGGG
AAATTGTAATTTCAATTCCTTAACCTTCTTTTCCCCACCCCTGCTCTTCAACCTCTTTATC
AGTTCTGAGGCTGGAGGGTTTGGGCAAGGCAACATCCCCATTCCAATTCATTTTCTGAT
GCAGATTTTAGCTGAGGGATTTGGAAGCCATTTGGGGAGGCAGGCTGGGCCAAAGGGTAG
AGCTGGGTAATAAATGTCTATTCTCCTGGGGAGGAGGGATTCTAAACTTTCTTCCGTCC
TCAATTTCTACCTCCATAGACCGGCCAGAATTTAGCTTCACTTGAGAGAGATCTGGAATG
GTCGCCATGATTGAAACCACGCACCATTACATCATCATTACATTAATTACATCAACATAA
ATTATTTCTTCCCCCTTCCCTTTTCCAGCACTCAACCAAGGAGCAAAGCTCATCCCACCC
CACACCCCTCCCAGGTCTGCTCACTGCCAGGCTCCTCTCCCTTTGTTTCACTGGAGCTGG
CTTTTCTCCCAGCCCTTTCCATGCCTTTCACTCCATTTGGCAAGCTCTGAGGGGGAGCC
TGGGGACGGGTTTGGGTCCCCAGGAGGAGAGCCTTGGGTATAATCTATTTTCTAGGAGC
CTCTTGCTTGTCACTTGAGCTTTGCGCCTCTGCTTTGATGGCTGAGGTGAAGTCACTGT
TCTTTGGGAAAAGGGAAGGCGTGCTGTGGAAATAAAATGTTTATTTGCTTCTCT

Gene 319. >ENST00000312487 cDNA sequence

GGTGTGCGCCATCTGCCTCGATTACTTCACGGACCCCGTGTCCATCGGCTGCGGGCACAA
CTTCTGCCGAGTTTGTGTAAACCCAGTTGTGGGGTGGGGAGGATGAGGAGGACAGAGATGA
GTTAGATCGGGAGGAGGAGGAGGAGGACGGAGAGGAGGAGGAAGTGGAGGCTGTGGGGGC
TGGCGCGGGGTGGGACACCCCATGCGGGATGAAGACTACGAGGGTGACATGGAGGAGGA
GGTCGAGGAGGAAGAAGAGGGTGTGTTCTGGACCAAGTGGCATGAGCAGGTCCAGCTGGGA
CAACATGGACTATGTGTGGGAGGAGGAGGACGAGGAGGAAGACCTGGACTACTACTTGGG
GGACATGGAGGAGGAGGACCTGAGGGGGGAGGATGAGGAGGACGAGGAGGAAGTGTGGA
GGAGGTTGAGGAAGAGGATCTAGACCCCGTCAACCCACTGCCCCCGCTCCAGCCCCCTCG
GAGGTGCTTACATGCCCTCAGTGCCGAAAGAGCTTTCTCGGCGGAGCTTCCGCCCCAA
CCTGCAGCTGGCCAATATGGTCCAGGTGATTCCGGCAGATGCACCCAACCCCTGGTGCAGG
GAGCCGCGTGACCGATCAGGGCATCTGTCCCAACACCAAGAAGCCCTGAAGCTCTTCTG
CGAGGTAGACGAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAACAGCA
CAGCGTGGTGCCATTGGAGGAGGTGGTGCAGGAGTACAAGGCCAAACTGCAGGGGCACGT
GGAACCACTGAGGAAGCACCTGGAGGCAGTGCAGAAGATGAAAGCCAAGGAGGAGAGGCG
AGTGACAGAACTGAAGAGCCAGATGAAGTCAAGCTGGCAGCGGTGGCCTCGGAGTTTGG
GCGACTGACACGGTTTCTGGCTGAAGAGCAGGCAGGGCTGGAACGGCGTCTCAGAGAGAT
GCATGAAGCCCAGCTGGGGCGTGCGGGAGCCGCGGCTAGTCGCCTTGACAGAACAGGCCGC
CCAGCTCAGCCGCTGCTGGCAGAGGCCAGGAGCGGAGCCAGCAGGGGGGTCTCCGGCT
GCTCCAGGTGTGAAGAGGTACAGCTGCAGCCCCCAGAGGTCTGGTCCCCTGACCCGTGCC
AACCCCATAGCCATGACTTCTGACAGATGCCATCGTGAGGAAAATGAGCCGGATGTTCT
GTCAGGCTGCGAGAGGTGGACCTGACGCTGGACCCCTGACACGGCTCACCCGGCCCTGATG
CTGTCCCCTGACCGCCGGGGGTCCGCTGGCAGAGCGGCGGCAGGAGGTTGCTGACCAT

FIGURE 1 (CONT'D)

CCCAAGCGCTTCTCGGCCGACTGCTGCGTACTGGGGGCCAGGGCTTCCGCTCCGGCCGG
CACTACTGGGAGGGAGCCTAAAGAACCCTCCTGGCCTCCAGCTCAGCCTTCTCTCACCTA
CTATGTCTGTCCAACAGGACCGGCCAGAATTTAGCTTCACTTGAGAGAGATCTGGAATGG
TCGCCATGATTGAAACCACGCACCATTACATCATATTACATTAATTACATCAACATAAA
TTATTTCTTCCCCCTTCCCTTTTCCAGCACTCAACCAAGGAGCAAAGCTCATCCCACCCC
ACACCCCTCCAGGTCTGCTCACTGCCAGGCTCCTCTCCCCTTTGTTTCAGTGGAGCTGGC
TTTTCTCCCAGCCCCTTTCCATGCCTTTCACTCCATTTGGCAAGCTCTGAGGGGGAGCCT
GGGGACGGGTTTGGGTCCCAGGAGGAGAGCCTTGGGTATAATCTATTTTTCTAGGAGCC
TCTTGCCTTGTCACTTGCAGCTTTGCCCCTCTGCTTTGATGGCTGAGGTGAACTCATGTT
CTTTGGGAAAAGGGAAGGCGTGCTGTGGAAATAAAATGTTTATTTGCTTCTC

Gene 320. >ENST00000327767 cDNA sequence

ATGGCTGGTTATGCCACTACTCCAGCCCCATGCAGACCCTTCAGGAGGAAGCGGTGTGT
GCCATCTGCTTGGATTACTTCAAGGACCCCGTGTCCATCAGCTGTGGGCACAACCTTCTGC
CGAGGGTGTGTGACCCAGCTGTGGAGTAAGGAGGACGAGGAGGACCAGAACGAGGAGGAA
GATGAATGGGAGGAGGAGGAGGACGAGGAAGCGGTGGGGGCCATGGATGGATGGGACGGC
TCCATTTCGAGAGGTGTTGTATCGGGGAATGCTGACGAAGAGTTGTTCCAAGACCAAGAT
GACGATGAACTCTGGCTCGGTGACAGTGGTATAACTAATTGGGACAACGTAGACTATATG
TGGGACGAGGAGGAAGAAGAAGAAGAGGAAGATCAGGACTATTACCTAGGAGGCTTGAGA
CCTGACCTGAGAATTGATGTCTACCGAGAAGAAGAAATACTGGAAGCATACGATGAGGAC
GAAGATGAAGAGCTGTATCCTGACATCCACCCGCCTCCTTCTTGCCCTTCCAGGGCAG
TTCACCTGCCCCAGTGCCGAAAGAGCTTTACACGTGCGAGCTTTCTGTCCTTGCAG
CTGGCCAACATGGTCCAGATAATTGCGCAGATGTGCCCCACTCCTTATCGGGGAAACCGG
AGTAATGATCAGGGCATGTGCTTTAAACACCAGGAAGCCCTGAACTCTTCTGTGAGGTG
GACAAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAACAGCACAGCGTG
CTGCCTTTGGAGGAGGTGGTGCAGGAGTACCAGGAAATAAAGTTGGAAACAACCTCTGGTG
GGAATACTTCAGATAGAGCAAGAAAGCATTACAGCAAGGCCTATAATCAGTAA

Gene 321. >ENST00000274821 cDNA sequence

GGCGGGGGGCTTTTCTCTCTCTCTTTCACTGCAAGGCGGCGGCAGGAGAGGTTGTGGTGC
TAGTTTTCTCTAAGCCATCCAGTGCCATCCTCGTCGCTGCAGCGACACACGCTCTCGCCGC
CGCCATGACTGAGCAGATGACCCCTTCGTGGCACCTCAAGGGCCACAACGGCTGGGTAAAC
CCAGATCGCTACTACCCCGCAGTTCCCGGACATGATCCTCTCCGCCTCTCGAGATAAGAC
CATCATCATGTGGAACCTGACCAGGGATGAGACCAACTATGGAATTCACAGCGTGCTCT
GCGGGGTCACTCCCACCTTTGTTAGTGATGTGGTTATCTCCTCAGATGGCCAGTTTGCCCT
CTCAGGCTCCTGGGATGGAACCTTGCCTCTGGGATCTCACAACGCAAGTAGCTGCTCA
CTTAGCTCTGGGGCCTTGGGAAGAATCTGGGCAGAAGGGCACCACCAGAGGCGATTTGT
GGGCCATACCAAGGATGTGCTGAGTGTGGCCTTCTCCTCTGACAACCGGCAGATTGTCTC
TGGATCTCGAGATAAAACCATCAAGCTATGGAATACCCTGGGTGTGTGCAAATACACTGT
CCAGGATGAGAGCCACTCAGAGTGGGTGTCTTGTGTCCGCTTCTCGCCCAACAGCAGCAA
CCCTATCATCGTCTCCTGTGGCTGGGACAAGCTGGTCAAGGTATGGAACCTGGCTAACTG
CAAGCTGAAGACCAACCACATTGGCCACACAGGCTATCTGAACACGGTGACTGTCTCTCC
AGATGGATCCCTCTGTGCTTCTGGAGGCAAGGATGGCCAGGCCATGTTATGGGATCTCAA
CGAAGGCAAACACCTTTACACGCTAGATGGTGGGGACATCATCAACGCCCTGTGCTTCAG
CCCTAACCGCTACTGGCTGTGTGCTGCCACAGGCCCCAGCATCAAGATCTGGGATTTAGA
GGGAAAGATCATTGTAGATGAACTGAAGCAAGAAGTTATCAGTACCAGCAGCAAGGCAGA
ACCACCCAGTGACCTCCCTGGCCTGGTCTGCTGATGGCCAGACTCTGTTTGCTGGCTA
CACGGACAACCTGGTGCAGTGTGGCAGGTGACCATTGGCACACGCTAGAAGTTTATGGC
AGAGCTTTACAAATAAAAAAAAAAACTGGC

Gene 322. >ENST00000308304 cDNA sequence

GCATCCCGGTGGGGAGAAGGGCCAGGCAGAGAAAAGTAGTCAGAAAACAGAGCAACAGGTG
AGGCTGAGGCAGGAGATTGAGCTGACACTCAAGCCAAGGAAGGGGGAATTAGGAAACAAT
TAGAAAAAAGTAAAGACAGTGAAAAAGTCAGAGACAGCTGCCTGCACCTACACACACAT
TCAGAGACAGAGTCCCAGAGGGTGGCATAACAGAGGGAGAAGGGGAGGGAACAGGTGTG
GAGAGGAGCTGCGGAAGCAGAGAAATCTCAAGTCAGAGATTAGGGACACTTGGTCCCCG
TGGCGAGCCATGGAAGCAGAAAGGAGGCGCCAGGCTGAGAAGCAAAGAAGGGGCGAGTC

FIGURE 1 (CONT'D)

GGCAGCAACCTGTTGCCTGAGAGACACCCGGCCACTGGGACCCCGACCACCACGGTGGAC
TCGAGTGCTCCACCCTGCAGAAGGCTCCCTGGTGCAGGAGGGGGGAGATCAAGGTTCTCC
CCGCAAGGAGGACAGAGGGGGCCGCCGCACTCCCGGCGCCGCCACCGCACCACCTTCAGC
CCAGTGCAAGTTGGAACAGCTGGAGTCAGCCTTTGGGAGGAACAGTACCCGACATCTGG
GCCCCGAGAGAGTCTTGCCCGGGACACTGGCCTCAGTGAGGCCCCGAATCCAGGTCTGGTTC
CAGAACCGCAGAGCTAAGCAACGGAAGCAAGAGCGCTCACTGCTTCAGCCTCTGGCCCAT
CTGTCTCCTGCCGCTTTTCCAGCTTCTTGCCAGAGTCCACTGCTTGCCCCCTATTCTTAC
GCAGCACCACCACCACAGTGACCTGCTTCCCTCACCCCTACAGCCATGCCCTCCCTTCC
CAGCCCTCCACAGGAGGCGCCTTTGCTTTGTACACCAGTCTGAGGACTGGTACCCTACC
TTGCACCCAGCCCCTGCCGGCCATCTGCCCTGCCCCCACCCTCCCATGCTCCCCCTC
AGCCTTGAGCCATCCAAGTCTGGAAGTGAAGTCAAACAAGTACCACCAAGGTGATCCCC
AGCCTGCGGCCCTCGTGAAAAGACAAGAAAATGGGGTGGCTTCTTTTCATCTATGGGTG
AAGCAGATGCATGGTGAGGGTCAGCTCAGCGATTAGAAATTTAAAATGGGAGATCATGG
TGAATTCTCACTGGGGTGATTAGTGGAGGAAGTCTGGGGAGGTGAGCTACTGGAAGAGAC
AGGGCAAGATGCCTCGGTGGAGCTGCCTGCTGAAGGGTGATATTGATGAAGACAGTTGCT
GGTGAGTGAGATGATTGAAGGGCTAGGAGGTGAGGGCCTTCATTAATTGAGATCACGAT
TGAAGAAGATCCAGCTCTTTCTGGCTGATTTTCAAGTAAAGGCTTCTGACTTAAGAGTCTAC
CTATACATCCCTTCCCCATTGCCACCCCGCCATCTCAATCAGTCACTGACTTTTGTTTA
TTCTGTCTAGAAATACCTTTTT

Gene 323. >ENST00000332215 cDNA sequence

CGCAGTGGCTGCCGCTCCTCGAGTTGGGGGCCCCCTCGGACACCGCCAGGCAGACGGCGA
GTACCGAGCGTGCGGTGGCCGCGGTGTCCGTGGGCCACGCTCAGCTGCGGTGAGAGGCGAC
ATGAGCGTCCCCGGGGAGGACGAAGAGCTGGAGAGCGCAAGGACGACGAGCGCAGCTGC
GGCCGCGAGTCGGACGAAGACACTGAGGATGCTAGTGAAACTGACCTGGCAAAGCATGAT
GAAGAAGACTATGGGGAAGTGAAGGAACAGATGTATCAGGACAACTGGCTTCTCTCGAG
AGGCAGTTGCAACAACACTACAAGAAGGTACATTACAGGAATATCAGAAGAGAATGAAAAA
CTAGGTGAGCAGTACAAAGAGAGGATACGGAATGCTGAACTCTTCTCCAGCTGGAACT
GAACAAGTGGGACGAAATTACATGAAAGAAAAGAAGGCAGCAGTGAAGAATTTGAAGAC
AAGAAGGTTGAGCTGAAAGAGAACCTGATTGCTGAGCTAGCAGAAGAGAAGAAAATGATT
GAAAACGAAATGCTGACAATGGAACCTGAATGGAGATTCTATGCAGGTGAGACCTATCATG
ACCAGAAAGTTGCGGAGGCGACCAATGATCCCGTCCCCATCCAGACAAGAGGAGGAAA
CCTGCTCCAGCCCAGCTAACTATTTGTTAACAGATGAACAGATCATGGAGGATCTGAGA
ACATTAAATAAGCTTAAGTCACCCAAGAGACCAGCATCTCCATCCTCTCTGAGCACTTG
CCTGCGACACCCGCGGAATCTCCAGCCCAGAGGTTTGAAGCTCGGATAGAAGATGGCAA
CTGCACTATGACAAAAGATGGTACCACAAGAGCCAGGCCATCTATCTGGAGTCAAAGGAC
AACCAGAACTGAGCTGCGTGATCAGTTCTGTAGGAGCCAATGAGATCTGGGTGAGGAAG
ACAAGTGACAGCACCAAGATGAGGATCTACCTGGGCCAGCTTCAGCGCGGGCTCTTCGTC
ATCCACCGGCGCTCAGCTGCTTGA

Gene 324. >ENST00000308158 cDNA sequence

AGTTCCTGCGCGGACTGCCAAGGCACGACCACGGGCGCGAAGGCTGCCAGGCCAGTGG
GCAAGCGAAGAAATGAACCACCGCAACGCGGGCGCTTCGGGGCGGGGCCGAGTGCGAACC
TGAGCCCCAAATCCCGACCCAGGCAGGGGCGGGGCCCGAGCGGGGCTTGGAGGCCAG
CCCGCGCGGCGACGTCTCCGCGTGGCGTCACGGCACCGACTGACGGCCACCCACCATGGC
CGCAGACCAGCGCCGAAGGCCGACACGCTGGCCCTGAGGCAACGGCTCATCAGCTCTTC
CTGCAGACTCTTTTTTCCCGAGGATCCTGTTAAGATTGTCCGGGCCCAAGGGCAGTACAT
GTACGATGAACAGGGGGCAGAATACATCGATTGCATCAGCAATGTGGCGCACGTTGGGCA
CTGCCACCCTCTCGTGGTCCAAGCAGCACATGAGCAGAACCAGGTGCTCAACACCAACAG
CCGGTACCTGCATGACAACATCGTGGACTATGCGCAGAGGCTGTGAGAGACCCTGCCGGA
GCAGCTCTGTGTGTTCTATTTCTGAATTCTGGGTGAGAAGCCAATGACCTGGCCCTGAG
GCTGGCTCGCCACTACACGGGACACCAGGACGTGGTGGTATTAGATCATGCGTATCACGG
CCACCTGAGCTCCCTGATTGACATCAGTCCCTACAAGTTCCGCAACCTGGATGGCCAGAA
GGAGTGGGTCCACGTGGCACCTCTCCAGACACCTACCGGGGCCCCCTACCGGGAGGACCA
CCCCAACCCAGCTATGGCCTATGCCAACGAGGTGAAACGTGTGGTCAAGAGTGCACAGGA
GAAGGGCAGGAAGATTGCAGCCTTCTTCGCTGAGTCTCTGCCAGTGTGGGAGGGCAGAT

FIGURE 1 (CONT'D)

CATTCCCCCTGCTGGCTACTTCTCCCAAGTGGCAGAGCACATCCGCAAGGCCGGAGGGGT
 CTTTGTTCAGATGAGATCCAGGTTGGCTTTGGCCGGGTAGGCAAGCACTTCTGGGCCTT
 CCAGCTCCAGGGAAAAGACTTCGTCCCTGACATCGTCACCATGGGCAAGTCCATTGGCAA
 CGGCCACCCTGTTGCTGCGTGGCCGCAACCCAGCCTGTGGCGAGGGCATTGAAGCCAC
 CGGCGTTGAGTACTTCAACACGTTTGGGGGCAGCCAGTGTCTGCGCTGTGGGGCTGGC
 CGTCCTGAATGTCTTGGAGAAGGAGCAGCTCCAGGATCATGCCACCAGTGTAGGCAGCTT
 CCTGATGCAGCTCCTCGGGCAGCAAAAAATCAAACATCCCATCGTCGGGGATGTGAGGGG
 TGTGGGGCTCTTCATTGGTGTGGATCTGATCAAAGATGAGGCCACAAGGACACCAGCAAC
 TGAAGAGGCTGCCTACTTGGTATCAAGGCTGAAGGAGAACTACGTTTTGCTGAGCACTGA
 TGGCCCTGGGAGGAACATCCTGAAGTTTAAGCCCCCAATGTGCTTCAGCCTGGACAATGC
 ACGGCAGGTGGTGGCAAAGCTGGATGCCATTCTGACTGACATGGAAGAGAAGGTGAGAAG
 TTGTGAAACGCTGAGGCTCCAGCCCTAAGCCAGCCCTGCTCTGCCTAAGTGTACTCCAGA
 AGAAACTCATCTCATCCAAATACACGCTATTGAGAAGGCGAGCCTGACCTCCCTCTTACA
 GATAAAGTCAGCTTTCAGAGGCTCAGGGTGGGGGGGCTGCCCCGAGGCCATAATGCTACC
 CACCCCTCCTCCTAACCACTGGTCTGTTGGAATAACCCAGATGTCTGCATCCCCTCAAG
 TCAGTCAATTTCTTTCTGTCCACTGGGGGTGGAATGGGGTAGGGTGGGATACTTTAAAG
 TGCTCCTGCTTAAATAAATTAGACCAGACCAGTGTATTTCTAAAGAAAATCCTGACATGC
 ACACCCATTAAAAATAGTACATTTT

Gene 325. >ENST00000274615 cDNA sequence

CTTAGGTCCTGGGCCCCCACTGCCAGGCTGGGCCCAGCTTGCTCAGTCAAGGGGCTGCCA
 GGCCCCCAGAAAACACTTGGAGCCATCGGGTAGCGATGGTCTATGCCATGGGGAACACCT
 CCATTGGTGTGGCCAAGCTGCCCCCATTCCTATCCACCCCTCTCCCCACCCCGTCTGTC
 CATGCGCTTCAGGGCCCCACGGTCCCCAGGAGGACGCTTCCTGGCCAAAGCCCCAAGCC
 TTTGGTGAGAAGCCAATTCCCACTTGACAGAAGGCGTCCATCCATTCTCATTGGCCA
 AGGACAAACTCTCCTCTGGGACGTCTGGGACTGGCATTGTGCCCCACTCAAATTATCAA
 AGCTTTCTGCTCAGTCAGTTGTGTGGGGATGGTGAGGGAAGAGGGGTACATGAGGGAGG
 AAAGTGTATCCATGCATGCATGATAATGCGTGGCAGAGACTGCAACAGGGATTGTGTGTT
 CAGAGATCATATGCATATGTGTAGGGCTGGAGCGTGTGTGTCTTGAGATTGTGTGTGT
 TGCAGTCATCATATCTATGTGTTACAGATTGTGTATGTTAGCCTTGTGTATGTGTGCTTG
 ATTGAGGTGGTGTATTTGGGTTGAAATTGTGTATATGTGTGTGCTATCCATCTCGTGTT
 TAGAGGCTGTATATGTTAGCTTGTGTGAAGAATGTGTTTTCAAAACAGTGTGTGTATTGGG
 AGTGATGGGTATGTGTTAGGTATGTGATGGGTTGTAGAAGCGTGTGTTTGAGAGAATTCA
 GAGACATTTGAAGGCTGCTGTGTGCATGTTTGGGGGTCTGAAAAGACAGTTGTGTGCATG
 GATGTGTGCGTGGGGAGAAAGAACGTGGGTAAGATGTCCCTTCCCAGCCCTGAGACCACT
 GGTACAGTTGGCCACCTCCAACGGGAGACCTTGTCTTGGCCTAGAGTCTTCCCACCTT
 TGGGGGGCTCCTGCCTGAGGTCTCAGAATCCCACTGCAATGGACCCAGGCAGCGCCCCA
 GGAAGCCATGCTGGGCCCCCGCCAGGGCCTATCCCAAAGCAGGGGCCAGGGAGGGGGCG
 ACTTGCCTGCCCCCTGAAGCCCTTGTTCCTTGGCCCCAGTTTGCATTCTGCAGGTTTTTC
 CATTTTAGTGGGTTCTGCTTTTATTTTCAAGACAGACATGTGTCTTCTCTGTCCGTTTTCC
 AATAGGTAAAGCCATATCAGTTAGACTGCAATACTTTAAACACGAGACAAAACAATCCAT
 ATGTTTAGGGAACACAATGACTATCATTACTGATGCAGACCTGGCTGTGGAGAGCAGCTA
 ATGTGTGGCCAGAGAGCCTGTCTGTGTGGAGCACGTAGTGACAGAATACGTGAGAGTT
 GCTCTGGCAGGGGCAGAATCCTCACAGGATCGCCTGGGAGGTGAGGTGTGTGTGACCCAC
 TGGATGGGAGGGCAATGAGTGTGCACATACAAATGGGGCAGTGTGCATGCAACACACTTA
 GGGGAGGAGTGGCCCCAGAATTGAGCAGCACACAACACACAAGGGAGAGAACCCCCAGA
 TGAGAAAATAGGAAGGAGCAATCATTTGTAGATGGGTGAAAAAAGAATGAGGTTCAAGGG
 AGCGTGACACAGGTGAGGTGAGCGTGTGTGCTCTCAGGGAAGGGCCAGGATCCCATGCC
 TGGGAGGAGCTGCCAGAGAGAAGCAAAAAGGCGGCTGTGGATCGCCCTGGGCTGGGCACC
 AGTGACAGGTGAGGATCTCCAAACATGGACGTCTCCCTCCCAATCCAGAAGCTCCAG
 AAGGTGTCTTAACTGCAAAGCTGTGCAGGGTACTCCTCCAGATGGAATCAGGAAGTCGA
 GACACCATCCCAGGTGTGTGTAAGAGAGAGAGAGAGAAACAGGGAGGATACAGAAGTATTG
 CAGCCCAGATCCCCTATCAGGGGGACAGCTGGTGGGCAAAGCAGCCACCCACAGCCTTG
 TGGCTAGAGTACAGTGGGGTAGACCCTCCAGCCCCAATAGCCCTAGTACCCAGCTGGCAG
 GGTGCCCCACCCCTGCTGTCCACCTGCTCCATCCTTAGGGTTCCACAGGCCCTGACCG

FIGURE 1 (CONT'D)

CACAGGGAGGCTGGGGCCAGCCTGGTCTCCCAGGCCTGAGGACATGCCTCCCACCAAATG
TCCCCTGCTCCAGTCCCACTCCTGTCACCCCACGCTCTGCACTGGGGAGAAAACGGGAGG
TGCTCGTGCTGGCCCTGGGTGGGAGCGGGGAGTCTGGTGAGACCCGGTGAGATGGACC
ATCCTGCCCCCGTGGGGGATCCCCTTTCCACATCCGTGCTGTGTATTGTTGCTCTGCT
TCCTTTCAATGTGTAGTGCCTGGGGGGAGGGGAGGAGCACCCCTCAGCCCCCTGAAC
CTGACCAAAAGCCATGGCTGTTGCTCCCCCTTTGTATGATGCAAATGCTGAAATGTACA
AAATCAACCATGACAACAAAGAAAAAGACCTTGTACAGC

Gene 326. >ENST00000265097 cDNA sequence

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTTGTGAGTTGGAAGCTGGG
GAGCTCGGCATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGC
CCCGGCTCGATGGCCCCGTGGTGCTCAGTGAGCAGCGGCCCGTCGCGCTACGTGCTTGGG
ATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCTGGCGCACAGCGCCAAG
GTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCTAGCCTCGGGGTCTTTCGACAAG
ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACAATTATCGGGGA
CATGGGGATAGTGTGGACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACG
GCGTCCGGAGATAAAACCATTTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACT
GTGAACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCCTGATGGGCAGACCATTGCT
GTAGGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA
GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTTC
TTCCTGACAAATGGCAATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTG
CAGTCCATCAACGCCCATCCTTCCAAGTGCATCTGTATCAAGTTTGACCCATGGGGAAG
TACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGTG
TGTGTTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT
GGGAAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACA
GGGGACAACTATGGGAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCGTGGCACCCC
AAAAGGCCTCTGCTGGCATTTCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGG
GAAGCCGGAACCTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGAGAGGAGGTTGTAGGG
AGAGGAGGCCCCGGCAGAGGTCTTCTTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGT
TGGTGGGCACCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTG
CGCATTTTCATTCTTTTGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCCAGCAT
GAGTTAACTCGCGTGGACTCTGCAGTGCGAGTAGTGACCCACCATAACCTTGTCTCTGG
ACCTCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGCATTGATACAACTTG
GACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTTAAATAATTA
AAAATATATATATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATG
G

Gene 327. >ENST00000302857 cDNA sequence

ATGTTCCATGAGAACTTGGTGAGGGTTGTGGAGAGGTTGGCTGGTGCTTCTCCGTCTTCA
TACAGATGTCCAGACAGGGGACCAGAAAGTCTCAGGTCTGAGCTCTACCTGGAAGCCCTC
ACGTCTGTAGCCATCAAACCTCCAGATAAGACGAGCCCTGAAGCATTTTGGTTGCATCAG
AAAACAGATGGAAGGCCAGTCTTCACAGATGCATATACTTCATCCTGGCTTCCACCCACA
GAGGTTGCATCTGTGCAGAAATTCATCCAGAGCACCAGGCAGGTGGGTGTCAACTCCTG
CTGAGATTTGCTGTATCAGGAACTCATGCATCTGGTGCAGATGTCCCGGAGTGGCTCT
GACAGTCCAGGGCTGGGCAGTGGAGACACTGATGACAGCCTTGAGCAGAGTGGTTTTAGT
AGAAATGGCAGAGACAAAAGCCAGGCTAGAGGAGTTTAA

Gene 328. >ENST00000333469 cDNA sequence

GGCCGATCCCAACGAGGCTCCCTGGAGCCCCGACGAGAGCAGCGCCCTGGCCGGGCCAAG
CAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCT
TCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCTCTCCATTTCCCGGCTCACTCCTG
GGGGCAAAGCGGCGCAGGCCGGAGTGCCCGTGGGTGACTGGGTGCTGAGCATCGATGGCG
AGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAAGATCCGGGCCTGCGGGGAGC
GCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGGCCTCCG
CCCCCGCCGCGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGG
CCCGGCCCTTTGGGGCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGC
TCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGC

FIGURE 1 (CONT'D)

GGCCGCGGCCGCGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCA
CCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGA
CAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCC
CCAGCCCTACCAGCCGCCCCGCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCC
CGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGC
AGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACA
ACGGCAAGACTCCCGTGTGTACCAGTGCCACAAGGTATCCGGGGCCGCTACCTGGTG
CGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTTGGAAGGTCCTGG
AAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGC
GCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCC
TGAAGATGACCTGGCAGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGA
ACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGT
TTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGG
CCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACCTGG
AAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTC
ATGTGTGAGCCCCCTTCTGCCACAGCTGCCCGGTGGCCCCCTAGCCTGAGGGGCCTGGAG
TCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCC
CGAGCCTGGGGCTCCCTGGGGCCTGCCCCACCCACCTTATCCTCCACCCCACTCCCTCC
ACCACACAGCACACCGGTGCTGGCCACACCAGCCCCCTTTCACCTCCAGTGCCACAATA
AACCTGTACCCAGCTGTG

Gene 329. >ENST00000292374 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCTCCGCGGCCTTTG
CACCAGCGTCTCCCTCAACAAGACGGCCCCGGCCCTTTGCCCCCGCCGCTGACAGCGCC
CCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCAGATGCCAGCAAGCAGCGGCTG
ATGGAGAACACAGAGGACTGGCGGCCGCGGCCGGGGCCAGTCGCGTTCTTCCGCATCC
TTGCCACCTCACAGGCACCGAGTTCAGTAATGCAAGACCCGGATGAGGAGCACCTGAAG
AAATCAAGCCAGGTGCCCAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTG
GCCTGGCCCTACCGCCCCCAGCCCTACCAGCCGCCCGCCCTGGGCTGTGGACCCTGCGTT
TGCCGAGCGCTATGCCCGGACAAAACGAGCACAGTGCTGACCACAGCCAGCCGGCCACG
CCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGA
GGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACCCAGTGCCACAAGGTATCCGGGGC
CGCTACCTGGTGGCGCTGGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGT
GGGAAGGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCA
TGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAG
ATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAG
ACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGAC
TATGAGAAGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGAC
CGCTTCTTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGT
CAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGC
CATGCCTTCTCTCATGTGTGAGCCCCCTTCTGCCACAGCTGCCGCGGTGGCCCCCTAGCCT
GAGGGGCCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACC
CTGGCTCCTGGCCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCA
CCCCACTCCCTCCACCACCACAGCACACCGGTGCTGGCCACACCAGCCCCCTTTCACCTC
CAGTGCCACAATAAACCTGTACCCAGCTGTG

Gene 330. >ENST00000331561 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA

FIGURE 1 (CONT'D)

GCTCAGAACAAGATCCGGGCTGCGGGGAGCGCCTCAGCCTGGGCTCAGCAGGGCCCAG
CCGGTTTCAGAGCAAACCGCAGAAGGTGCAGACCCCTGACAAACAGCCGCTCCGACCGCTG
GTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCG
GGGACAGGCCAGTGCCTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTCATG
CAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGACAGAAGCCCCA
GCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACC
AGCCGCCCGCCCTGGGCTGTGGACCTGCGTTTGCCGAGCGCTATGCCCCGACAAAACG
AGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGCAGAGCCGCACC
TCCATTGTGCAGGCAGCTGCCGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACT
CCCGTGTGTACCAAGTGCACAAGGTTCATCCGGGGCCGCTACCTGGTGGCGCTGGGCCAC
GCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGAAGAGGGTGGC
TTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCC
AGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACC
TGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAACAGGGCCTTC
TACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAA
TGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTC
AGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACCTGGAAGGAAAGACC
TTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCC
CCTTCTGCCACAGCTGCCGCGGTGGCCCCCTAGCCTGAGGGGCTGGAGTCGTGGCCCTG
CATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCCCCGAGCCTGGGG
CTCCCTGGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCCCTCCACCACACAGC
ACACCGGTGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATAAACCTGTACCC
AGCTGTG

Gene 331. >ENST00000331867 cDNA sequence

AGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTG
GCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGC
ACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCTCTCCATTTCCCG
GCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAG
CATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGC
CTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAGCCGGTTTCAGAGCAAACCGCA
GAAGGCCTCCGCCCCCGCCGCGGACCCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCT
CAACAAGACGGCCCCGGCCCTTTGGGGCGCCCCCGCCGCTGACAGCGCCCCGAGCAGAA
TGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACAC
AGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTGCCTTCCCTCCGCATCCTTGCCCA
CCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGGGA
AAAGTATGTCTGGAGCTGCAGAGCCACGCTACACCCGCCTCCGGGACTGGCACCAACA
GCGCTCTGCCACGTGCTCAACGTGCAGTCGTAG

Gene 332. >ENST00000332347 cDNA sequence

ATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCG
CAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGC
CTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGC
CTCAGCAGGGCCCAGCCGGTTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGAC
CCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCCGGCCCTTTGGG
GCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGGTGCAGACCCCTGACAAACAGC
CGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGA

Gene 333. >ENST00000333364 cDNA sequence

ATGACTCGGGGAGCCAGACTGCGATCAGACGCGCGTGCCAGCTGAACCAGCTGTCTCTA
GACGGAGGGACGGGAAGTGGCCAGAAGGGGAAGTGTGAGGAGTTCCCGTCCAGCCTGTCA
TCAGTCTCCCCAGGTCTTGAAGCGGCGGCCCTGCTCCTGGCCGTGACCATGGACCCTCTG
GAGACCCCTATCAAGGATGGCATCCTCTACCAGCAGCATGTCAAGTTTGGCAAGAAGTGC
TGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCCATCAGGCGTGGCACGGCTGGAG
AGCTGGGAGGTCCGGGATGGTGGCCTGGGAGCAGCGGTGACAGGTCCGCAGGGCCTGGC
CGGCGAGGGGAGCGACGGGTTCATCCGCTGGCTGACTGTGTGTCCGTGCTGCCGGCTGAC

FIGURE 1 (CONT'D)

GGCGAGAGCTGCCCCGGGACACCGGTGCCTTCTGCTCACCACCACCGAGCGAAGCCAT
CTACTGGCTGCTCAGCACCGCCAGGCCTGGATGGGCCCCATCTGCCAGCTGGCCTTCCCG
GGGACAGGGGAGGCCTCCTCAGGATCCACAGATGCCAGTCTCCAAGAGGGGCCTGGTC
CCCATGGAGGAAAACCTCATCTACTCCTCCTGGCAGGAAGTGGGCGAGTTTCCCGTGGTG
GTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGGGGCGGCCCTGCTGGTGCTG
GGCCAGACGCCATCCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTCTACAGCTGGCCC
TACCACTTCTGCGCAAGTTCGGCTCCGACAAGGGCGTGTTCTCCTTTGAGGCCGGCCGT
CGCTGCCACTCGGGTGAGGGCCTCTTTGCCTTCAGCACCCCTGTGCCCCTGACCTGTGC
AGGGCTGTGGCCGGGGCCATCGCCCGCCAGCGGGAGCGGTGCCAGAGCTGACCAGGCC
CAGCCCTGCCCCCTGCCACGGGCCACCTCTCTGCCCTCCCTGGACACCCCGGAGAGCTT
CGGGAGATGCCACCAGGACCTGAGCCACCCACGTCCAGGAAAATGCACCTGGCCGAGCCC
GGACCCAGAGCCTGCCGCTACTGCTAGGCCCGGAGCCCAACGATCTGGCGTCCGGGCTC
TACGCTTCAGTGTGCAAGCGTGCCAGTGGGCCCCCAGGCAATGAGCACCTCTATGAGAAC
CTGTGTGTGCTGGAGGCCAGCCCCACGCTGCACGGTGGGGAACCTGAGCCGCACGAGGGC
CCCGGCAGCCGCAGCCCCACAACAGTCCCATCTACCACAACGGCCAGGACTTGAGCTGG
CCCGGCCCGGCCAACGACAGTACCCTGGAGGCCAGTACCGGCGGCTGCTGGAGCTGGAT
CAGGTGGAGGGCACAGGCCGCCCTGACCCTCAGGCAGGTTTCAAGGCCAAGCTGGTGACC
CTGCTGAGTCGTGAGCGGAGGAAGGGCCAGCCCCCTTGTGACCGGCCCTGAACGCCCAGC
AGAGTGGTGGCCAGAGGGGAGAGGTGCTCCCCCTGGGACAGGAGGGTGGGCTGGTGGGCA
AACATTGGGCCCATGCAGACACACGCCTGTGTCCACCCTGGCCTGCAGGAACAAGGCAGG
CCGCCTGTGGAGGACCTCAGCCCTGCCCTGCCCTCCTCATGAATAGTGTGCAGACTCACA
GATAATAAAGCTCAGAGCAGCTCCCGGCAGGGGCACTCACGGC

Gene 334. >ENST00000331704 cDNA sequence

ATGGGCCCCATCTGCCAGCTGGCCTTCCCGGGACAGGGGAGGCCTCCTCAGGATCCACA
GATGCCCAGTCTCCAAGAGGGGCCTGGTCCCCATGGAGGAAAACCTCATCTACTCCTCC
TGGCAGGAAGTGGGCGAGTTTCCCGTGGTGGTGCAGAGGACTGAGGCCGCCACCCGCTGC
CAGCTGAAGGGGCGGCCCTGCTGGTGCTGGGCCCAGACGCCATCCAGCTGAGGGAGGCC
AAGGGCACCCAGGCCCTCTACAGCTGGCCCTACCACTTCTGCGCAAGTTCGGCTCCGAC
AAGATACTTCTGGGAACCCCAAGCGTCAGTCTCCTCATCTGTAAAGGAGAGAGAACCGAT
GACGTATCAGGCATAATCCTTGATGAGAGTTTGTGCGTGCCTACTCAGTGCCAGGCGCT
GGGGGACACAGCCGTGTTTCAAGACAGCCTTGGTCCTGTTTCTCCGGGAGCCGACATTCCAG
GGGGAGAGAAGTTTCTGAAGACTTCCATGCTGCGTTCCCTCCTCTGCTCCTGCTCCTGG
CGCCATCCTAGGAGCCAGCCACGCACGCAAGCGTCATGCCTCCAGGGCTCTGACTGCCCA
GCCCCCTCACCGCAACTCCACCTCAGCTGCACACACCCTTGGCACATCCTGAACCTCATTT
TCATGACGGACACACAATTTTTGTCTCTCCTGTCCAAGCCTCATCCTCTGGCCGCCACC
TCCTTCCAGCTCACTTCTTTTGTGCGGCCAGTACCGCCCCCTGCCTAGGCATGTGACCT
GCAGGGACCCCTTTTCTGGCTCTTCGAGGCCTCTGCCCACCATCCCTCTTTGTTCTCCAT
AGTCCCTTCCCCCTGTTCTCTCTCGTTTTCATCTTACTGGTCTGGCAAAGTCCCCGGCCTT
GGGCGAGCCCAGACCTCCTCAGTGCCTGCACACAGCTGCCCACAGCCAGAGAAATCCATT
TAAGCAGACTGCCTGCATCCTTCTTAACAGTGAAGGCAGGCACTCCCTGCCACAAGAGA
CCCTGTTCCCTAGTAGGGCAGCTTTTCTCCTCCCCAGAACCTCCTGTCTATCCCCACCCA
ATGTCTCCTCACAGGCATATTGGGGAAAACAGGTGGGGCTCTCCACCGTATCTGCAAGTG
TACTGGCATCCATCTGTCTTCTTCTACCCCTACAGTAGAAACAGTGTCTGTCCCCAGCT
GTGCTCTGATCCCGGCTCCTTTACCTCAGAGCTTGGAAAATTGAGCTGTCCCCACTCTC
TCCTGCGCCCATTCATCCTACCAGCAGCTTTTCCAGCCACACGCAAAACATGCTCTGTAAT
TTCACATTTTAAACCTTCCCTTGACCTCACATTCTCTTCGGCCACCTCTGTTTCTCTGT
TCCTCTTCACAGCAAAAACCTGTTCAAAAGAGTTGTTGATTACTTTTCAATTTCACTTTCTC
ACCCCCATTCTCCCCTCAATTAACCTCTCCTTCATCCCCATGATGCCATTATGTGGCTTTT
ATTAGAGTCACCAACCTTATTCTCCAAAACAAAAGCAACAAGGACTTTGACTTCTCAGCA
GCACTCGGCTCTGGTTCTTGAAACACCCCGTTACTTGCTATTCTCCTACCTCATAACA
ATCTCCTTCCCAGCCTCTACTGCTGCCTTCTCTGAGTTCTTCCCAGGGTCTTAGGCTCAG
ATGTAGTGTAGCTCAACCCTGCTACACAAAGAATCTCCTGAAAGCCTGTAAAAATGTCCA
TGCATGTTCTGTGAGTGATCTACCAAGAAAATAAAAAATTTTAAAAATC

Gene 335. >ENST00000274788 cDNA sequence

FIGURE 1 (CONT'D)

GGCGGCGGCGGCGGCGTGTGGAGCGAGGGAGCGGCGGAGCGGCGGCATGACGCGGAGGC
GGAGCAGGCCGAGCGGCGGTGCGGGCAGGCGGAGCGGGCTCGGGCCGCGGGCCGAGAG
AGCCCCAGGCGCCCGAGCCCCCGCGCCGCAAGCCTGGAGGCGGGAGCGGGTGCAGGCC
CTCCGGAGGCGCCGGCGGAGCCCGACACGACGGCCCCAGGGAGGATGACGAACCCAACC
TGGTGCCCCGCGCCGAGGTAGGAGCGAGCGGGGAGACTTCGGCGGCTCGGGCGCTTTCAC
CTTCCCCGAGCGGGAGCGGGAGTGGGGCGGGGTGGGGATGGGCCATCCTGCCGCGGCTG
GGGTAGCAGCCTTCCCCCGGTCCGGCGCCGAAGCTTCTCCCCGGGGCGGGAATGGAG
GCTGGACCCCTCTCCCCAAGCCGAGGCTCGGTCCGCGCTCCTGCGACTAGGCTGAAGCT
GCTCCCCTCTCCCCGCGCCTCCGGGCGTTCCGGCCGTACACCCACACTGGGACTGGGAC
TGGGACTGGGCTGTGATCCCAGGCCGCGAGCTCCGCTCTCGGCCCGCCACCTCCCCCGGG
CCCACCTGCTCCCTCAGCCACAGGCCATCTCGGGGCTCTGGGACTGGACGACTGCAGCCT
CTTCCCTCTGCCCCCGGGAACGGCTCCACTCCGTCCCCTGCAGCGCCTGCAGCCGCGGCC
CCCTCAGCAGCTGTGTCTCCTGGCGCCTCCTCGCCATACCCAGCAGAGCAGTTGGAGCAG
ACAGCCAGGCTGCCCGGAGGAGTTTTTGGTGGGGTTTCTGCACTGAGGTGGAAACCCAGC
AGAACCTGCCCTTCTTCCCTCCCCTGCTCCGCAAGGCAGCCACCCCGACCTTGAGATCC
CAGGTTTGGAGAATCCTGCTGAGAGCGAACAGTAGGAGGATTCCCCAAGCTTCCAGCTT
GCCACCTGGAAGAAGGTCACTTTCTTTTGGAGCAAAGGAGATAACGGGAGGTACCCTGCCA
AAGTTCACTGAGAGGCGGGGGTGACATGGGCCACGGTTGCTCTGGGAGGGTTGTGGCACT
CGGGGCTGGGTGGCTCTCCCTAAGCTTGCTCTGACAAAAGAGTTTTGAGTTGGTCTTTTG
GCTGAGCCTGCCAGGAAGGCAGGCTCCTGCAGGAGTCTTGGAGGGTCGGATGCGGCGCC
GGATGAGGATGAGGCGTGGCGGAAGATGCGTTTGGCTCTGCAGACACTGCATCGGGCAGC
AGGGGACTCTGGGAGGCTGGTGAGCCAGAAGGCATGGCTCTTGACAGCCTTCTAGTAGA
ATCTCTGGAATTGTGCATATGAAGAAACAGAACTCAGAGCAACTAAACATTTGCCAAA
TGACTCCAACCTGTAGGTGTGAGACAAAAGAAAAGAAAGGACTTTTAGGTCCCCCGCC
TCCAGCCAGCCTGTGCAGACTTGCTGCCTGCTGTGTACCGGGAACGCAAAGGCTGGGAA
GAAGGCCCTTCTCAAATGGACTGGTGTTGAGGGTGAGAAGCTGCCCCCTGACTTCATG
CCAAAGCTCGTCAAGAATCTCCTAGGCGAGATGCCTCTGTGGGTCTGCCAGAGTTGCCGA
AAGAGCATGGAGGAAGATGAAAGGCAGACAGGTCGAGAACATGCAGTGGCGATCTCCTTG
TCACACACATCCTGCAAATCACAGTCTTGTGGAGATGACTCTCATTCTGTCTCTCTTCC
TCCTCATCATCCTCATCCTCGTCTCTCTTCTTCTGCCCCTGGGAACTCGGGAGACTGGGAT
CCTAGCTCGTTTCTGTGCGGCACATAAGCTCTCGGGCCTCTGGAATTTCCCCACATTCCAGT
GGGGCCATGCCAGGCAGCTCTCTTGGGAGTCTCCTACCATCCCCGGTGAGGCTTTCCCC
GTCTCGGAGCACCAACAGCACTCAGACCTCACTGCTCCCCCTAACAGCCCCACCGGCCAC
CACCCGCAGCCAGCATCTCTAATCCCGTCTCACCCAGCTCCTTTGGCTCCCCACCCAC
CCACACCTGCTGCCACCAACCCCGGCAGCACCTTTCCCTGCCAGGCTTCAGAGTGCCCT
GTTGCTGCTGCCACTGCCCCCACACTCCAGGGCCATGTGAGAGCTCCCATCTACCTTCC
ACCAGCATGCCGCTCCTGAAGATGCCCCCACCATTCTCGGGGTGCAGCCACCCCTGCAGC
GGGCACTGTGGTGGGCACTGCAGTGGGCCTCTCCTCCACCCCGAGCTCTCAGCCACTC
CCTAGCACTCACAGGGATCCCGGGTGCAAGGGGCACAAGTTTGCACACAGTGGCCTGGCT
TGCCAGCTGCCCCAGCCCTGCGAGGCAGATGAGGGGCTGGGTGAGGAAGAGGATAGCAGC
TCTGAGCGAAGCTCCTGCACCTCATCCTCCACCCACCAGAGAGATGGGAAGTTCTGTGAC
TGCTGCTACTGTGAGTTCTTCGGCCACAATGCGGCAAAAGGAAAGGAAATGGCAGAGAGA
AAGCTATGATTCTGATGAGTATGTATACGTGTGTAATCCCAGAGAAGTGAACGCTTGGGA
GTGATGAAGGCAGAGTGGAAGCAAAAAGGCTCTCAGTCCCCCAAGTGTGACAGCCAGCCG
AGGGACAGGCCGTGAGCACAGACGGCGCCAGGAAGGAGGCTCAGATCAGAGGGCATGCTG
GCTCTGGCCAGGGGGAGGAAGCAGTGAGAAAGTCTCATAAGCCACCCGCTGCCCCGACGA
GTCGGAACATACCGAGATCCGGGAGAAGCTCCGCTCGAGGCTGACCAGGCGGAAAGAGG
AGCTGCCCATGAAGGGGGGACCCCTGGGCGGGATCCCTGGGGAGCCCGCGTGGACCACC
GAGATGTGGATGAGCTGCTGGAATTCTCAACAGCACGGAGCCCAAAGTCCCCAACAGCG
CCAGGGCCGCCAAGCGGGCCCGGCACAAGCTGAAAAAGAAGGAAAAGGAGAAGGCCAGT
TGGCAGCAGAAGCTCTAAAGCAGGCAAATCGTGTCTTCTGGAAGCCGGGAGCCAAGGCCTG
CCAGGGAGAGGCTCTTGGAGTGGCCCGACCGGGAACCTGGATCGGGTCAACAGCTTCTGA
GCAGCCGTCTGCAGGAGATCAAAAACACTGTCAAAGACTCCATCCGTGCCAGCTTCAGTG
TGTGTGAGCTCAGCATGGACAGCAATGGCTTCTCTAAGGAGGGGGCTGCTGAGCCTGAGC

FIGURE 1 (CONT'D)

CTCAGAGTCTACCCCCCTCAAACCTCAGTGGCTCCTCAGAGCAGCAGCCTGACATCAACC
TTGACCTGTCCCCTTTGACTTTGGGCTCCCCTCAGAACACACGTTACAAGCTCCAGGCG
AGCCAGCCCCACCATGGGCAGAAATGAGAGGCCCCACCCACCATGGACAGAGGTGAGGG
GGCCCCCTCCCGGTATCGTCCCGAGAACGGGCTCGTGAGGAGACTCAACACCGTGCCCA
ACCTATCCCGGGTGATCTGGGTCAAGACACCCAAGCCGGGCTACCCAGCTCCGAGGAGC
CAAGCTCAAAGGAAGTTCCAGTTGCAAGCAGGAGCTGCCTGAGCCTGTGTCTCAGGTG
GGAAGCCACAGAAGGGCAAGAGGCAGGGCAGTCAGGCCAAGAAGAGCGAGGCAAGCCCAG
CCCCCGGGCCCCAGCCAGCCTAGAGGTTCCAGTGCCAAGGGCCAGGTGCTGGCCCCA
AGCAGCCAGGCAGGGTCTTAGAGCTTCCCAAAGTAGGCAGCTGTGTGAGGCTGGAGAGG
GGAGCCGGGGGAGCCGGCCAGGACCAGGTTGGGCTGGCAGTCCCAAACTGAGAAGGAGA
AGGGCAGCTCCTGGCGAACTGGCCAGGCGAGGCCAAGGCACGGCCTCAGGAGCAGGAGT
CTGTGCAGCCCTCAGGCCAGCAAGGCCACAGAGCTTGCCCCAGGGCAAGGGCCGAGCC
GCCGGAGCCGCAACAAGCAGGAGAAGCCAGCCTCCTCCTTGACGATGTGTTCTGCCCA
AGGACATGGACGGGGTGGAGATGGATGAGACTGACCGAGAGGTGGAGTACTTTAAGAGGT
TCTGTTTGGATTCTGCAAAGCAGACTCGTCAGAAAGTTGCTGTGAAGTGGACCAACTTCA
GCCTCAAGAAAACCACTCCTAGCACAGCTCAGTGAGGCCCTGCCAGGCTGAGCTGCTTC
AGGGCGTCTGAGGCCCTGACTGCCAGCTGAAGGCGTATAATTTTTCCCTCCGTGTGCC
CACCTACCCGTCCAAGACCTCTGTGCTCCCCACCATCCTGGACCAACCAAAAGCTGAAC
GGATGCCACACTGTGCTGGGGCCCCCTTGACCTCAGCAGAGCCGCTTCTGGTGCTACGCA
GCCTCCACACTCAGAGCCCGTGACTGGGCTGGCCTAAGGGCCAGGGCTGATGGTACTGC
TGGCCCCAACACTGCTCTCTTTGTGTTTGGTTTTTTTTGTTTTTATTTTGTTTTTT
TCCAATTCTTTACTTTTGATACTGTGAAGATCTTTCGTGCCGAAAGATAAAGCAACATTT
GGACACAG

Gene 336. >ENST00000332598 cDNA sequence

GAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCGGAACCGGGCT
GGGTAGAGTGATGCGGACCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCT
CTACTTTTACATCGGAGAGACGGAGAAGAAGTGCTTTATTGAGGAGATCCCGACGAGAC
CATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGGAGGAGTACCAGCC
GGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCATCCT
GGCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATACCCCTGGTGAGCA
CCAGATCTGTCTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAG
AGTTTCACTGGACATCCAGGTAGGTGAACATGCCAATGACTATGCAGAAATTGCTGCTAA
AGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAACAAGTGGAGCAGAT
CCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAG
CACCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGG
TGTCTGGCAGATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTC
CCAGGCGTCACAACCCATCCTCCCAGGCTGGGGGAGAAAGGACCTCCTGGAAGTGAATTC
TTCTGTGAGGAGTGGTTTCCAGCCATACCTGTTCTGGAAGGGAGAGGGGCTGGAGGC
ACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGGGCAA
TTCCTGCCCTCTCTCTCTGGCCTCTGGGCCGTTTGGTAGTAATACCCAAGGGCTGGTAA
AGCCCCCTCCTCTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTG
TTGGGGGTGGGGGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCTTTGCTAACT
TAGGGTTTTGAGCAGGTTGGGGTATGGTGCCTGTCATACCCACCTGCCACCCTGGGAACC
TCACTGTTCTCTCTTTCAGCCTAGACCTGCTGATCCAGGGTGTGTGTGAGTTGAGGGTGG
GTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTACATGG
TTGTCCATTCTGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGCTGGTT
GGGGTGGGGCCTGCAGAGTCTTAGTTACTGATTTTCAATTAATGTAGGTTTGTTA
CATGAGTTTCCC

Gene 337. >ENST00000330228 cDNA sequence

CAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGCGGAAGATGAG
GACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAG
AAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGT
GAACCCCGGGGAGATGAGGACGACATCCCGCTAGGCCCTCAGTCCAACGTGAGCCTCCTG
GATCAGCACACGACCTTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAAGGAGAAG

FIGURE 1 (CONT'D)

CAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGCATTGATGTCA
GTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAAACCAGCTGGACTCCA
CCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCAC
ATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTT
CCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACACCACCAACACCCATTAG
ATCCAGGGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGCTTTCACGGGT
TCAGGCAAGACACTGGTGTTCACGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAG
AGGTTACCCTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAG
CTGGCCCGGCAGACCCATGGCATCCTGGAGTACTACTGCCGCCTGCTGCAGGAGGACAGC
TCACCACTCCTGCGCTGCGCCCTCTGCATTGGGGGCATGTCCGTGAAAGAGCAGATGGAG
ACCATCCGACACGGTGACACATGATGGTGGCCACCCCGGGGCGCTCATGGATTTGCTG
CAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGC
ATGATCGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAG
CGACAGACCCTGCTCTTCAGTGCCACCATGCCGAAGAAGATTAGAATTTGCTAAGAGT
GCCCTTGTAAGCCTGTGACCATCAATGTGGGGCGCGCTGGGGCTGCCAGCCTGGATGTC
ATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCTCGAGTGCCTG
CAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATC
CACGAGTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAG
GAGGAACGGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCC
ACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTATCAATTATGAC
ATGCCAGAGGAGATTGAGAACTATGTACACCGATTGGCCGCACCGGGCGCTCGGGAAAC
ACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTC
AAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCCGTGCTGCAGGTGCTGCATTGC
GGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTG
GGTCATCGGATCACTGACTGCCCCAAACTCGAGGCTATGCAGACCAAGCAGGTGAGCAAC
ATCGGTGCGAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGACAGTCTTCCC
TTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCC
TGGACAGAATCAGCATTTTCACTCAGCTGAGCTGGCCTGGGATGGGCCAGGCTGGTCCTGGCTGC
CTGTTCCCTGTGCTCTTCAGAATTACTGTTTTTGTTCCTTTTACCCCAGCTGCCATTAA
AGCCCAAACCTCTAGCCC

Gene 338. >ENST00000029410 cDNA sequence

AGCGCCTGCCCCATGCGCCGCGCCTCTCCGCACGATGTTCCCTCGCGGAGGAAAGCGG
CGCAGCTGCCCTGGGAGGACGGCAGGTCCGGGTTGCTCTCCGGCGGCCTCCCTCGGAAGT
GTTCCGTCTTCCACCTGTTTCGTGGCCTGCCTCTCGCTGGGCTTCTTCTCCCTACTCTGGC
TGCAGCTCAGCTGCTCTGGGGACGTGGCCCCGGGCAGTCAGGGGACAAGGGCAGGAGACCT
CGGGCCCTCCCCGTGCCTGCCCCCAGAGCCGCCCCCTGAGCACTGGGAAGAAGACGCAT
CCTGGGGCCCCCACCAGCCTGGCAGTGCTGGTGCCCTTCCGCGAACGCTTCGAGGAGCTCC
TGGTCTTTCGTGCCCCACATGCGCCGCTTCTGAGCAGGAAGAAGATCCGGCACCATCT
ACGTGCTCAACCAGGTGGACCACTTCAGGTTCAACCGGGCAGCGCTCATCAACGTGGGCT
TCCTGGAGAGCAGCAACAGCACGGACTACATTGCCATGCACGACGTTGACCTGCTCCCTC
TCAACGAGGAGCTGGACTATGGCTTTCTGAGGCTGGGCCCTTCCACGTGGCCTCCCCGG
AGCTCCACCCTCTCTACCACTACAAGACCTATGTCCGGCGGCATCCTGCTGCTCTCCAAGC
AGCACTACCGGCTGTGCAATGGGATGTCCAACCGCTTCTGGGGCTGGGGCCGCGAGGACG
ACGAGTTCTACCGGCGCATTAAAGGGAGCTGGGCTCCAGCTTTTCCGCCCCCTCGGGAATCA
CAACTGGGTACAAGACATTTTCGCCACCTGCATGACCCAGCCTGGCGGAAGAGGGACCAGA
AGCGCATCGCAGCTCAAAAACAGGAGCAGTTCAAGGTGGACAGGGAGGGAGGCCTGAACA
CTGTGAAGTACCATGTGGCTTCCCGCACTGCCCTGTCTGTGGGCGGGGCCCCCTGCACTG
TCCTCAACATCATGTTGGACTGTGACAAGACCGCCACACCCTGGTGACATTAGCTGAG
CTGGATGGACAGTGAGGAAGCCTGTACCTACAGGCCATATTGCTCAGGCTCAGGACAAGG
CCTCAGGTGCTGGGCCAGCTCTGACAGGATGTGGAGTGGCCAGGACCAAGACAGCAAGC
TACGCAATTGCAGCCACCCGGCCGCCAAGGCAGGCTTGGGCTGGGCCAGGACACGTGGGG
TGCCTGGGACGCTGCTTGCCATGCACAGTGATCAGAGAGAGGCTGGGGTGTGTCTGTCC
GGGACCCCCCTGCCTTCTGCTCACCTACTCTGACCTCCTTCACGTGCCCAGGCCTGT
GGGTAGTGGGAGGGCTGAACAGGACAACCTCTCATACCCCCACTTTTGTTCCTTCTCTG

FIGURE 1 (CONT'D)

CTGGGCTGCCTCGTGCAGAGACACAGTGTAGGGGCCATGCAGCTGGCGTAGGTGGCAGTT
GGGCCTGGTGAGGGTTAGGACTTCAGAAACCAGAGCACAAGCCCCACAGAGGGGGAACAG
CCAGCACCGCTCTAGCTGGTTGTTGCCATGCCGAA

Gene 339. >ENST00000318185 cDNA sequence

CAAAAGATCGCAGTGGACTGTGTGATTGACCTGACAAGAGCTGAGGGAGAAAATAGACCT
ATTGCCACTCTTGACTTAACCTTTAGAACCTGTCACTCCTTCCAGAGGGAGCCAACAGT
CTTCAGACATGTGCCAGCCTCTCTGGCAAAGCGGTGATGGAAGGGCAGGTGGACAGAAGC
TCTCAGCCTACAGCACGGAGACTCATTAAACAGTGATCCTGTAGATTTGGACCTAGTGGAA
GAAAACACCTTTGTAGGTCCCCACCCGCTACATCCATCAGTGGAGGCTCTGTTTATCCA
ACAGAGCCTAATTGTAGCTCAGCCACATTACAGGTAACCTCAGCTTCTTGGCAAGTCTA
CAGCTGTCTTCAGATGTTAGCTCCCTCTCCCCAACAAGCAATAATAGTAGCAGCAGCAGC
AGCAATCAAAAAGTACCCTTGCCATGCCACAGCAAGATGTGTCTCGCCCACCACAAGCC
TTGCCTTGCCCACTGAGAGCCTCACCTTGTCACCACGAGCCTTGTCATGCCATCACAA
ACCATGCAGTGCAAACCTACCAGCTCTAACTCAACCACCTCAAGAAGTGCCATGCCCTCGG
CAGAATATCCCAAGCCACCTCAAGACTCGTTATGGCATCCTCAACACTCACCAAGCCCA
CCTCAAGACTCTCTGGGCCTACCTCAAGATGTGCCAGGCCCCGCTCAAAGCATATTACAT
CCACAAGATGTGGCATACTGCAAGACATGCCACAGTCACCAGGAGATGTGCCACGGTCA
CCAGGAACCATGCCACCATCACAGATGTGCCACAGTCAACAGGAGACATGCTAGGGTCA
CCAGGAGATGTGCCACAGTCACCAAGTTATGTTTTACCGTCACCAGATGCACCACAGTCA
CCAGGGGGCATGCCACACTTACCGGGAGATGTGTTACATTACCTGGAGACATGCCACAC
TCATCAGGGGACGTGACACACTCACCTAGAGACATCCCTCACTTACCAGGAGACAGGCCT
GACTTTACCCAGAATGATGTACAGAACTGTGACATGCCTATGGATATCTCAGCTGCGTCC
CCTCCAAGCTGCTCTCCCAGCCACAGTCTGAAACTCCCTTAGAGAAAGTTCTTGGCTC
TCTGTCTATGGAAACCCAGCCAGAAAAGAAATATCACTGTGAGAGCCTGCCAAACCTGGG
TCTGCCACGTACAATCACGAACACCACAAGGTGGGTTGTACAACAGACCATGCCTGCAT
AGACTGAAGTACTTCTTACGACCTCCGGTTCATCATCTGTTCTTTTCAAGCCTAATACCG
GATAAAGACACGAGAGAACAAGGGTCAAAAATTAGAACCCTATCCCTCATCGAAGACTAAG
AATGGTAACAAATACCATTGAAGAGAATTTTCCCCTGGGGACTGTGCAGTTTTTGTATGGA
CTTTGTGTCACCCCAGCATTACCCACCAAGAGAAATCGTGGCTCACATCATCCAGAAAAT
CTTGCTCAGTGGCTCTGAGACTGTGGATGTCTTAAAGGAGGCCTACATGCTTCTCATGAA
AATTCAACGGCTACATCCAGCCAATGCCAAGACAGTGGAGTGGGACTGGAACTGCTCAC
CTATGTCTATGGAGGAAGAGGTAACAACAATTATAAGATTATATCTTCTGTAGGGGAAGTT
TTAACTATAAAGAAAAGTGATACCAGGTGCCATGGC

Gene 340. >ENST00000332522 cDNA sequence

GCACCGAAAGCGAAGGAAGCTCCTGCTCCTCCTAAAGCCGAAGCCAAAGTGAAGGTTTTA
AAGGCCAAGAAGGCAGTGTGTAAGGTGTCCGAGCCACAAAAGAAGATCCGCATGTCA
CCCACCTTCAGGCGGCCCAAGACACTGCGACTCCGGAGGCAGCCAGATATCCTCGGAAG
AGCACCCCCAGGAGAAACAAGCTTGGCCACTATGCTATCATCAAGTTTTCCGCTGACCACT
GAGTCGGCCAAGAAGATAGAAGAAAACAACACGCTTGTGTTCACTGTGGATGTTAAAGCC
AACAAGCACCAGATCAGACAGGCTGTGAAGAAGCTCTATGACAGTGATGTGGCCAAGGTC
ACCACCCTGATTTGTCTGTATAAAGAGAAACAAGGCATATGTTGACTTGCTCCTGATTAT
GATGCTTTTCGATGTTGTAACAAAATTGGGA

Gene 341. >ENST00000327705 cDNA sequence

GAAGCAGGCGGAGAAGAGACAAGAGAACTCACTGCAGAGCTGGAAAAGCTTCAGACAGA
GCTTGACTGGAGACGGGCTGAAGGCCAGGCTGAGTGGAGAGCAGCCAAAAATATGCAGT
GGATGTGACGCTGGACCCGGCCTCGGCGCACCCAGCCTGGAGGTGTGCGAGGATGGCAA
GAGCGTGTCTTCCGCGGGGGCGCCGCCAGGCCCCGGCGCCTGGCCACCCGACGCGTTCTC
GGAGCAGACGTGCGCGCTGAGCCTGGAGCGGTTCTCCGCGGCGCCCACTACTGGGAGGT
GCACGTGGGCGCGCGCAGCCGCTGGTTTCTGGGCGCCTGCCTGGCCGCGGTGCCGCGCGC
GGGGCCTGCGCGCCTGAGCCCTGCGGCGGGCTACTGGGTGCTGGGGCTGTGGAACGGCTG
CGAGTACTTTCGTCCTGGCCCCGCACCGCGTCGCGCTCACCTGCGCGTGCCCCGCGGCG
CCTGGGCGTCTTCTGGACTACGAGGCCGGAGAGCTGTCTTCTTCAACGTGTCCGACGG
CTCCACATCTTCACCTTCCACGACACCTTCTCGGGCGCGCTCTGTGCGTACTTCAGGCC
CAGGGCCCACGACGGCGGCGAACATCCGGATCCCCTGACCATCTGCCCGCTGCCGGTTAG

FIGURE 1 (CONT'D)

AGGGACGGGCGTCCCCGAAGAGAACGACAGTGACACCTGGCTACAGCCCTATGAGCCCGC
GGACCCCGCCCTGGACTGGTGGTGAGGCGCCCTCGTGGCCGCGGACTGGCCCGGGGGG
CCCCCTGGATCCCAGGCCAGCGCTTTGCTCTCCTGCTCCGTCTGAAGGGAGCAGGTGCAC
CAGCCAAAATGTGAGCGAGGGGGACAAAGAGAGGGACCTTTGCCTACGTAGATGTGTATG
TGTAAGTGCATTTTCTTCAAGGAAAGGAGACAAGTCAAAGCTCGTTTGTGGATTGTGGG
ACTGAGCGAAGGAGTACAAATATATCCACGTGCTCAGAGCTGGGGTGCTCACGGTGGGC
GGTGGGCAAGAAGCCAGCATGGAAGAAAGAAGGGAGAAAACCTTTGGTGAAGTGCCTTAGAG
GGATCAGTTAATTTGTATAGTTTTATATTTTTTGTATATGTTTGTAGCTCTAAAAAGGT
CGAGATGCAATAACACTTCGTAAGCAACGAGTTTACCTAAGTAAGGCTCAGATCCTAGTT
TTAAAAACCATTTCCATTAAAAATGAAGTTGGAGGAACAGCTGCTTCTGGAGCCGGGGCA
AAAATTTCAAGGTGAGCCTGGAGCATTGTGTGTGGTGAAGTAAAAATAAGGCTCAAAACG
TGACGGCAACCCGGCAAAAGGGTAGGGAGCCAGGCCGAAGGGGCCTCACTGACCAATTGT
GGGACAATTTGAACATCAGGATGAATAATGACAGGAGAGATTATAACACACTGAATAAAA
ACATAATCCATGAGTTTATGCTGATACTCAAATTTCTTTTTAAAAAGGAGAAACAGGAAG
GTTTTCTTTTGGAGGTGAAATCTAATTATTGGTGAGAGTCTTGGAGAACAGGCTGTTTCCA
GTCTCAAAGCAGTAACCTTATACACTACTTATAAGTTTGAAGGGGAAAGGTTACCTTTA
CAATGGAGACATCTACCAGATCATCCAAGTGATTAAATTTAACATCATCAATGATGGGAC
CAAGGACATTATTAGTTTTGACAACCTGGGGAAAGAAGTGTCTTCACCCCCTACCCCAAG
ACATTGTCTCTGTGCGCCAGGCTGGAGTGACAGCCTCAACCTCCTGGGTCCAAGTGATCCT
CCCACCTCAGCACACAACACCATGCCCAATTTTAAAGTGCCTTATAGAGACGGGGGTCTCA
CTTTGTATACCCAGGCTGGTCTCAAACCTCCTGCGCTCAAGCAATCCTCCCACCTGGGCCTC
CCAAAATGCTGGGTGTACAGGCATGAGCCGCTGTGCCTGGCTTCATTTTTCAGAGTGAGAC
ATTTGTACTGTGGCTATGTAGGAGAACATTCTTGTCTTAGCAAAACATACTGAAGTTTTT
AGATATTAATTACCACAGTGTCTGCCACTGAATTTCCAGTGACTAAGTGGAAAAATATAA
AACATATGAATATAAAGAAAGAAAGAGACAAGTCAAATGTAGTAAAATGACAAACACTTGG
TGACTCTAGGTGACTGGTTCGACAGATGTTTCAATGTACTATCAATGTGGCTTTGCTGTGGG
TTTGAAATTTTGCAACTAAGAGTTGGGTGGCGGGGAGAAGGATACACCAAAAACTAAG
TGATTATCTTTGGATGGGAAAATGTTTGGTAATTGCATTCTTAAATGTCTTCTTTGTAT
TTTTTAATGTTCAATAATGTATATGTATCAGTTCTGTAATAAAGGGGAAAACACTTTTTT
T

Gene 342. >ENST00000298708 cDNA sequence

ATATATCTTAGGGTGAAGATGGATAAATAATTCTGTACACGTGCCCTGGCCTCTGGAG
CTCAGCTGCCAGTCCACGTCTAGGGAATCTTAGCATCTGGGACCAAGACACTTTACAGCA
ATCATCACCTTTTGAGAGGAGGTGAGCTCACCAGGACTCATCTGCCATTTTCAGACCTTT
TGCTGCTACCTGCCAGGTGGCCCCCACTGCTGACGAGAGATGGTGGACCTCTCAGTCTCC
CCAGACTCCTTGAAGCCAGTATCGCTGACCAGCAGTCTTGTCTTCTCATGCACCTCCTC
CTCCTTCAGCCTGGGGAGCCGAGCTCAGAGGTCAAGGTGCTAGGCCCTGAGTATCCCATC
CTGGCCCTCGTGGGGAGGAGGTGGAGTTCCCGTGCCACCTATGGCCACAGCTGGATGCC
CAGCAAATGGAGATCCGCTGGTTCGGAGTCAGACCTTCAATGTGGTACACCTGTACCAG
GAGCAGCAGGAGCTCCCTGGCAGGCAGATGCCGGCGTTCGGGAACAGGACCAAGTTGGTC
AAGGACGACATCGCCTATGGCAGCGTGGTCTGACAGCTTACAGCATCATCCCCCTCTGAC
AAGGGCACATATGGCTGCCGCTTCCACTCCGACAACTTCTCTGGCGAAGCTCTCTGGGAA
CTGGAGGTAGCAGGGCTGGGCTCAGACCTTCACTCTCCCTTGAGGGCTTCAAGGAAGGA
GGCATTTCAGCTGAGGCTCAGATCCAGTGGCTGGTACCCCAAGCCTAAGGTTTCAGTGGAGA
GACCACCAGGGACAGTGCCTGCCTCCAGAGTTTGAAGCCATCGTCTGGGATGCCAGGAC
CTGTTTCAGTCTGGAAACATCTGTGGTTGTCCGAGCGGGAGCCCTCAGCAATGTGTCCGTC
TCCATCCAGAATCTCCTCTTGAGCCAGAAGAAAGAGTTGGTGGTCCAGATAGCAGACGTG
TTCGTACCCGGAGCCTCTGCGTGGAAGAGCGCGTTTCGTGCGGACCTGCCGCTGCTGTTG
GTCCTCGCGGCGCTGGCGCTGGGCGTCTCCGGAAGCAGCGGAGAAGCCGAGAAAAGCTG
AGGAAGCAGGCGGAGAAGAGACAAGGTGAGCGGGGACAGGGCGTTCTGCACGCACCTGCC
CAAGTGCCAAAACCCGCCGTCTCTAAAGGCTGTGGGTCCCGTTACGAGGGTTTATTCCA
GCGCGAGGTGTGAGGGCGGCCACCGGGGAACCGGGGATCGGTGACCCCGGTGGGGAAGGGG
GAAGATCGTTTCATATGGACAAAAGCGGAGGTGCGGAACGGCTGCATTTTCCACGGAGGCT
AGTGACAGATGTGAGGGTTGACCGGCTGCTGTGCTTACGCCCTCGGAGCTTACATCAC

FIGURE 1 (CONT'D)

ACTGTACAGAGGGAGCGGTGACCAGGGTCTCTGCTGCCAGCGCCACCTCGTCCAGGTTTT
CATAGCGCACAGGGAGTGGGGCGGATGCGCAACATCTCCGCACAGGGTCAGGAAGCGGCG
GTCAGGCACCGAGAAAAACAGCCAGTTACGTGAGGCAGTGTCCGGGGCTTAACGTTTTCCG
CCGAGCTAATAGATTTGGGAGGCTCCGACCCTGATTTTCACTAGCAGGAGGGAGGGCG
CTGGGTCAACCTCCTATGCAGAAGGGCAGCCAAGGGTGCGCACTTCCCCATCCCCTGCCT
GGAGCCTCACTTCCAGCCAGCCTGGGCCCCGAGACCACCGCGGGTGGGAGTGCCGCATC
GGAGGTGAGGCCTCAGTGTTCACCCATCTGTTCTGTCTGCCTCATTCCCCAACCTGAGAG
TCTTTCCCCTTTTCTTCATCTTTTTTTTTTTTTTTTTTCTCTAGAGAACTCACTGCAGAGC
TGGAAAAGCTTCAGACAGAGCTTGGTAAGTGACCCCTCTTAGAACTATTTCTCCTCAGGG
CCGGGTCCAGTGGCTCACACCTGTAATCCCAGTACTTTGGGAGGCCGAGGCGGGTGGATC
ACGAGGTGAGGAGATCGAGACCAGCCTGGCTAACACAGTGAAACCCCGTCTCTTCTAAAA
ATACAAAAAATTAGCCCGGCGTGGCGGCATGTGCCTGTAGTCCAGCTACATGGGAGGCT
GAGGCAGGAGAAGGGCGTGAACCCGGGAAGCGGAGCTTGCAGTGAGCCGAGATGGCGCCA
CTGCACTCCAGCCTGGGCGCAGAGCGAGACTCTGTCTC

Gene 343. >ENST00000301996 cDNA sequence

ACAGTTTGACATCGTTCATGAAGAGCCTCTCCACGGCTCCTGCGCCTGAGACAGCTGGCC
TGACCTCCAAATCATCCATCCACCCCTGCTGTCTGTTTTCATAGTGTGAGATCAACC
CACAGGAATATCCATGGCTTTTTGTGCTCATTTTTGGTTCTCAGTTTCTACGAGCTGGTGTC
AGGACAGTGGCAAGTCACTGGACCGGGCAAGTTTTGTCCAGGCCTTGGTGGGGGAGGACGC
CGTGTCTCCTGCTCCCTCTTTCTGAGACCAGTGCAGAGGCTATGGAAGTGCAGTTCTT
CAGGAATCAGTTCATGCTGTGGTCCACCTCTACAGAGATGGGGAAGACTGGGAATCTAA
GCAGATGCCACAGTATCGAGGGAGAACTGAGTTTGTGAAGGACTCCATTGCAGGGGGGCG
TGTCTCTCTAAGGCTAAAAACATCACTCCCTCGGACATCGGCCTGTATGGGTGCTGGTT
CAGTTCCCAGATTTACGATGAGGAGGCCACCTGGGAGCTGCGGGTGGCAGCACTGGGCTC
ACTTCCTCTCATTTCCATCGTGGGATATGTTGACGGAGGTATCCAGTTACTCTGCCTGTC
CTCAGGCTGGTTCCCCCAGCCACAGCCAAGTGGAAAGAGACGTTTTTCCAGCCCTCACC
TTGGCGCCTGGCTTCTATTTTACTCGGGTACTCTGTGGTGCCCTGTGTGGTGTGTGTCAT
GGGGATGATAATTGTTTTCTTCAAATCCAAAGGGAAAATCCAGGCGGAACTGGGTATGTG
TCATGTCTTGAGCCTCCACACATGGTTCTCCCGGGTCCCTCCCTGATCCACAGTTTGAG
CCTCTGGACGACCCTGGCTGCAGGCTGGACAGGAAGCACCGGCAGCCTCTTACATGTTTT
TTGTTTTTGTTTTTGTTTTTCAGACTGGAGAAGAAAGCACGGACAGGCAGAATTGAGAGA
CGCCCGGAAACACGCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCACCCGAAGCTCTG
CGTTTCTGATCTGAAAACGTAAACCCATAGAAAAGCTCCCCAGGAGGTGCCTCACTCTGA
GAAGAGATTTACAAGGAAGAGTGTGGTGGCTTCTCAGGGTTTCCAAGCAGGGAAACATTA
CTGGGAGGTGGACGTGGGACAAAATGTAGGGTGGTATGTGGGAGTGTGTGGGATGACGT
AGACAGGGGGAAGAACAATGTGACTTTGTCTCCCAACAATGGGTATTGGGTCTCAGACT
GACAACAGAACATTTGTATTTACATTCAATCCCCATTTTATCAGCCTCCCCCCCAGCAC
CCCTCCTACACGAGTAGGGGTCTTCTGGAATATGAGGGTGGGACCATCTCCTTCTTCAA
TACAAATGACCAGTCCCTTATTTATACCTGCTGACATGTGAGTTTGAAGGCTTGTGAG
ACCCTATATCCAGCATGCGATGTATGACGAGGAAAAGGGGACTCCCATATTATATGTCC
AGTGTCTGGGGATGAGACAGAGAAGACCCTGCTTAAAGGGCCCCACACCACAGACCCAG
ACACAGCCAAGGGAGAGTGCTCCCGACAGGTGGCCCCAGCTTCTCTCCGGAGCCTGCGC
ACAGAGAGTCACGCCCCCACTCTCCTTTAGGGAGCTGAGGTTCTTCTGCCCTGAGCCCT
GCAGCAGCGGCAGTCACAGCTTCCAGATGAGGGGGGATTGGCCTGACCCTGTGGGAGTCA
GAAGCCATGGCTGCCCTGAAGTGGGGACGGAATAGACTCACATTAGGTTTAGTTTGTGAA
AACTCCATCCAGCTAAGCGATCTTGAACAAGTCACAACCTCCAGGCTCCTCATTTGCTA
GTCACGGACAGTGATTCTGCCTCACAGGTGAAGATTAAAGAGACAACGAATGTGAATCA
TGCTTGCAAGTTTGAAGGCACAGTGTTTGCTAATGATGTGTTTTTATATTATACATTTTC
CCACCATAAACTCTGTTTGCTTATTCC

Gene 344. >ENST00000274605 cDNA sequence

GGCGATCGAGCGCCGCGGAGCGCGTCCCTCCCTCGCCAATCCGGCTCCGGCGCCGGCGCC
CGCCCGCGTTTTCCCGGCGCCTGCCGCTCCGCCGCTCCGACCCGGCACGCAGTCCCGGCC
CGAGCCGACGCCTTGCAAGGAGGTTCAAATCCGCGCGGGGGAGCTGCGACGCGCAAGGGC
TGCGGAGCCGCGGGCCGGCGAGCGCGTCCCAACCATGAAGCAGCTGCCTGTACCCTGTTG

FIGURE 1 (CONT'D)

AAACTTCATGGCCACAGCCCCAGGCCCTGCTGGCATTGCCATGGGCAGCGTGGGCAGCCT
GTTGGAACGGCAGGACTTCTCCCTGAAGAGCTGCGGGCGGCACTTGCCGGGTCTCGGGG
CTCCCGCCAGCCTGATGGGCTCCTCCGAAGGGCTTGGGCCAGCGTGAGTTCCTCAGCTA
CCTGCACCTCCCCAAGAAGGACAGCAAGAGCACCAGAACACCAAGCGGGCCCTCGGAA
CGAGCCTGCCGACTATGCCACCCTCTACTACCGGGAACATTCTCGCGGGGTGACTTCAG
CAAGACCTCGCTGCCAGAACGGGGTCGCTTTGACAAGTGCCGCATTGCCCCCTCAGTGTT
CAAGCCTACGGCGGGCAACGGGAAAGGCTTCTATCCATGCAAAGTCTGGCGTCCCACAA
AGGCCAGAAGCTGTGGCGCAGCAATGGCAGCCTGCACACGCTGGCCTGCCACCCGCCCT
GAGCCCCGGGCCCCGGGCCAGCCAGGCCCGGGCACAGCTGCTGCACGCCCTCAGCCTAGA
TGAGGGCGGCCCTGAGCCCGAGCCAGCCTGTCCGACTCCTCCAGTGGGGGTAGTTTTGG
TCGAGTCTCGTGGTACTGGCCCTAGCCCCCTTCAGCTCCTCCCTTGGCCACCTTAACCACT
CGGGGGCTCCCTGGACCGGGCTCTCAAGGACCCAAGGAGGCTGGGCCACCAGCTGTGCT
GAGCTGCCTGCCGAGCCACCACCCCTTACGAGTTCTCCTGCTCCTCTGCCGAGGAAAT
GGGAGCCGTGCTGCCCGAGACCTGTGAGGAGCTCAAGAGGGGCTTGGCGATGAGGACGG
CTCCAACCCCTTCACGCAGGTGCTGGAGGAGCGCCAGCGGCTGTGGCTGGCTGAGCTGAA
GCGCCTGTATGTGGAGCGGCTGCACGAGGTGACCCAGAAGGCTGAGCGCAGCGAGCGCAA
CCTCCAGCTGCAGCTGTTTATGGCTCAGCAGGAGCAGCGGCGCTGCGCAAGGAGCTGCG
GGCTCAGCAGGGCCTGGCTCCGGAGCCTCGGGCCCCCGGCACCCTCCAGAGGCTGACCC
CAGTGCACGACCAGAGGAGGAAGCCCGATGGGAGGTGTGCCAGAAGACAGCAGAGATTAG
CCTCTTGAAGCAGCAGCTGCGTGAAGCCAGGCGGAAGTGGCCAGAAGCTGGCGGAGAT
CTTCAGTCTGAAGACACAACCTTCGGGGCAGCCGGGCACAAGCCAGGCTCAGGACGCAGA
GCTGGTCCGGCTGCGCGAGGCTGTGCGCAGCCTGCAGGAGCAGGCCCTCGGGAGGAAGC
CCCAGGCAGCTGTGAGACTGATGACTGCAAGAGCAGGGGCTGCTAGGGGAGGCAGGAGG
CAGCGAGGCCAGAGACAGTGTGAGCAGCTGCGGGCTGAGCTGCTGCAGGAGCGACTTCG
GGGCCAGGAGCAGGCGCTGCGCTTTGAGCAGGAGCGGCGGACTTGGCAGGAGGAGAAGGA
GCGCGTGTGCGCTACCAGCGGGAGATCCAGGGAGGGTACATGGACATGTACCGCCGCAA
CCAGGCACTGGAGCAGGAAGTGCAGGGCACTGCGGGAGCCCCCACACCCTGGAGTCCCCG
GCTCGAGTCTTCCAAGATCTGAGGCCAGCAGAGCGAGCTGACAGCAGCAACACTGTGAGA
AGGTGCCCTGAGACGGCCGGCTCAGCCTTCCCTTGCAGTGGTTGGGGTGGAACTGCGAGA
GGCCAGCCCCGGGGCTGGGGAGGCGCAAGGAGAGGAGGGATCCAGTGGGGCCGTGGGCTGG
GTAGGGTGCCTTGGCAGGAGCCAGGACAAGGCCCTCCTGGCAGAGGAGCACCTAGGCAGG
GCCAGCCCTGCTTCCCTGGAGTGGATGTGGCCAGAGAAGGAGGCTGGGGGATCACCAGC
CCCAAGGTCCCGAAGGGCAGGTGAGAGGAGAGAGGCTGGAGACCTGGGCTGGGGCCTTC
CTCCAGGGAAGGAGGCTGGGGTGGGAACACTGGCCTCCCCCAGAATAAAACCATGTTTTT
T

Gene 345. >ENST00000274606 cDNA sequence

GATGACCTGGAAGTGATGCCTAAAGCTGTGGACCGCGTGGGCTCGCCTCCCTGGGACTAG
GTTTCAGCGGCCGCTGCGATGACCAAAATAAAGGCAGATCCCGACGGGCCCGAGGCTCAG
GCGGAGGCGTGTTCGGGGAGCGCACCTACCAGGAGCTGCTGGTCAACCAGAAACCCATC
GCGCAGCCCCCTGGCTTCTCGCCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAGCG
GTGAAGCAGAAGCAGATTTCGGCGCGGGGTGAAAGAGGTTGAGAAATTTGTCAACAAAGGA
GAAAAAGGGATCATGGTTTTGGCAGGAGACACACTGCCCATTTAGGTATACTGCCATCTC
CCAGTCATGTGTGAGGACCGAAATTTGCCCTATGTCTATATCCCCTCTAAGACGGACCTG
GGTGCAGCCGAGGCTCCAAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAG
TACCAGGAGGCTTACGATGAGTGCCTGGAGGAGGTGCAGTCCCTGCCCTACCCCTATGA
GGGGCTCCGGTAGCACCTGGGCACCTGCCGCTGGAAGCTATTGGGCTGGCAGCAGGACGA
CTGGCTGTCTCCTGCCACCCACACTGACGGCATCTTCCCAGTTCCCCAAGGCACGCCT
TCTTCCCAGGCAGCTCTAACAGCCCTTTTCATGAAGGTAATGCTAGTCTTCTGTCCATCAG
TGCCATTTCTGTAGAACTAAAGGCTGTTCCAAGAATGTGGGGTGGGGAAAGTAAATGCT
AAGACT

Gene 346. >ENST00000327842 cDNA sequence

ATGGGATCGTCGAGCAGCCGGGTGCTGGGCCAGCCGAGGCGAGCCCTTGCCCAGCAGGAA
CAGGGTGCCAGGGCCAGGGGCTCGGCCCGGAGGCCGACACTGGAGACGATGCGGCGAGC
TACGGCTTCTGTTACTGCCCGGGCAGTCACAAGCGCAAGCGGAGCAGCGGGGCTGCCCG

FIGURE 1 (CONT'D)

TACTGTGACCCGGACTCGCACAGGGAGGAGCATGAGGAGGAGGGGGACAAGCAGCAGCCG
 CTCCTCAACACCCCTGCAAGGAAAAAATTAAGGAGTACATCCAAATATATTTATCAAACA
 TTATTTTTGAATGGTGAAAACAGTGACATTAAGATTTGTGCTCTAGGAGAAGAATGGCGA
 TTACACAAAATATATTTATGTCAATCTGGCTACTTTTCTAGTATGTTTCAGTGGTTCTTGG
 AAAGAATCCAGCATGAATATTATTGAACTGGAGATTCTTGACCAGAACATTGATGTAGAC
 GCACTGCAGGTTGCGTTTTGGTTCACTGTATCGAGATGATGTCTTGATAAAACCCAGTCGA
 GTTGTGGCCATTTTGGCAGCAGCTTGTATGCTGCAGCTGGATGGTTTAATACAGCAGTGT
 GGTGAGACAATGAAGGAAACAATTAATGTGAAAACCTGTATGCGGTTATTACACATCAGTA
 GAGATCTATGGATTAGATTCTGTAAAGAAAAAGTGCCTTGAATGGCTTCTAAACAATTTG
 ATGACTCACCAGAATGTTAAACTTTTTAAAGAACTCGGTATAAATGTATGAAACAGCTC
 ATTGGTTCTCTAACTTATTTGTGATGCAAGTGGAGATGGATGTATACCACTCTAAAA
 AAGTGGATGTTCTTCAACTTGTGCCTTCTTGAATGGATCTTTAAACAGCTTTTGACA
 GAAACAGATGTCTGGTTTTCTAAACAGAGAAAAGATTTGAAGGTATGGCCTTTCTTGAA
 ACTGAACCAGGAAAACATTTGTGTCACTATTGAGACATTTAAGGTTACAATATATTATC
 AGTGACCTAGCTTCTGCAAGAATTATTGAACAAGATGGTATAGTACCTTCAGAATGGCTG
 TCTTCTGTGTATAAACAGCAGTGGTTTGCTATGCTGCGGGCAGAACAAAGACCGTGAGGTA
 GGGCCTCAAGAAATCAATAAAGAAGACCTAGAGGGAAATAGCATGAGGTGTGGTAGAAAG
 CTTGCCAAAGATGGTGAATACTACTGGTGTGGACGGGTTTTAACTTCGGCTTTGACCTA
 CTTGTAATTTACCAATGGATACATCATTTTTCAAACGCAATACACTGAATCAGCCACGC
 AGCGGGTCTGTCACTTTACGGCCTCGAAGGAGCATAGCATTTAGATTACGCTTGGCTTCT
 TTTGATAGTAGTGGAAGAACTAGTATGTAGTAGAACAACTGGCTATCAAATACTTATACTT
 AAAAAGGATCAGGAACAAGTGGTGATGAACTTGGACAGCAGGTTTCTGACCTTCCCTTTA
 TATATCTGCTGTAACCTTCTGTATATATCACCAGAAAAAGGAATTGAAAATAATCGTCAC
 CCAGAAAATCCAGAAAACCTGA

Gene 347. >ENST00000332649 cDNA sequence

GGCCGCAGCCATGAGCATGCTCGGGCCTCAGAAGAGGCTCGCCTCTAGTGTCTCCGCTG
 TGGCAAGAAGAAGGTCTGGTTAGACCCCAAGTGAGACCAATGAAATCGCCAATGCCAACTC
 CCGTCAGCAGATCCGGAAGCTCATCAAAGACGGGCTGATCATCCGCAAGCCTGTGACGGT
 CCATTCCCGGGCTCGATGCCGGAACCAACCTTGGCCCCCGGAAGGGCAGGCACGTGGC
 CATAGGTGAGCAGAAGGGTACAGCCAATGCCCCGAATGCCAGAGAAGGTACATGGATGAG
 GAGAATGACGATTTTGCGCCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGATCG
 CCACACGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAGACAAGCGGAT
 TCTCATGGAACACATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGA
 CCAGGCTGAGGCCCCGAGGTCTAAGACCAAGGAAGCAGGCAAGTGCCCTGAAGAGCGCCT
 CCAGGCCAAGAAGGAGGAGTTTCATCAAGACTTTATCCAAGGAGGAAGAGACCAAGAAATA
 AAAGCTCCCCCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATGAAAA
 TAAAACAAGCCTTAA

Gene 348. >ENST00000303154 cDNA sequence

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTTGTGAGTTGGAAGCTGGG
 GAGCTCGGCATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGGCCAGAGCGGT
 CCCGGCTCGATGGCCCCGTGGTGCTCAGTGAGCAGCGGCCCGTTCGCGCTACGTGCTTGGG
 ATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTTCGCGCACAGCGCCAAGGTG
 CACTCGGTGGCCTGGAGTTGCGACGGGCGTTCGCTAGCCTCGGGGTCTTTCGACAAGACG
 GCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAAAATTAATCGGGGACAT
 GGGGATAGTGTGGACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACGGCG
 TCCGGAGATAAAACCATTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACTGTG
 AACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCCTGATGGGCAGACCATTGCTGTA
 GGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCAGAA
 GAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTCTTC
 CTGACAAATGGCAATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTGCAG
 TCCATCAACGCCCATCCTTCCAACCTGCATCTGTATCAAGTTTGACCCCATGGGGAAGTAC
 TTTGCCACAGGAAGTGAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGTGTGT
 GTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGATGGG
 AAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGG

FIGURE 1 (CONT'D)

GACAAACTATGGGAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCATGGCACCCCAA
AGGCCTCTGCTGGCATTTCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGAA
GCCGGAAGTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGAGAGGAGGTTGTAGGGAGA
GGAGGCCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGTTGG
TGGGCACCCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTGCGC
ATTTTCGTTCTTTTGTCTTGTCTGTGATTAGCTCTTTCCATTCTTTGCCCCCAGCATGAG
TTAACTCGCGTGGACTCTGCAGTGCAGTAGTGACCCAGCATACCTTGTCTCTGGACC
TCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGCATTGATACAACCTTGGAC
AATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTTAAATAATTAAAA
AAATATATATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATGG

Gene 349. >ENST00000274787 cDNA sequence

GAGGCTGAGGTCCGAGTCCCATTCTCTCTGCTGTGGCCCCGACATGGCGACTCCC
GGCCCTGTGATTCCGGAGGTCCCCTTTGAACCATCGAAGCCTCCAGTCATTGAGGGGCTG
AGCCCCACTGTTTACAGGAATCCAGAGAGTTTCAAGGAAAAGTTCGTTTCGCAAGACCCGC
GAGAACCCGGTGGTACCCATAGGTTGCCTGGCCACGGCGGCCGCCCTCACCTACGGCCTC
TACTCCTTCCACCGGGGCAACAGCCAGCGCTCTCAGCTCATGATGCGCACCCGGATCGCC
GCCCAGGGTTTACGGTTCGACGCCATCTTGCTGGGTCTGGCTGTCACTGCTATGAAGTCT
CGACCCTAAGCCCAGGGTCTGGCCTTGAAAGCTCCGCAGAAATGATTCCAAAACCCAGGG
AGCAACCACTGGCCCTACCGTGGGACTTACTCCCTCCTCTCCTTTGAGAGGCCCATGTGT
CGCTGGGGAGGAAGTGACCCTTTGTGTAAGTGAACCGAAAGTTTTTTCAAAAATCCTAG
ATGCTGTTGTTTGAATGTTACATACTTCTATTTGTGCCACATCTCCCTCCACTCCCCTG
CTTAATAAACTCTAAAAATCCACTTGTATTT

Gene 350. >ENST00000328179 cDNA sequence

GAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGGAACCGGGCT
GGGTAGAGTGATGCGGACCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCT
CTACTTTACATCGGAGAGACGGAGAAGAAGTGCTTTATTGAGGAGATCCCGGACGAGAC
CATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGGAGGAGTACCAGCC
GGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCACTCT
GGCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATACCCCTGGTGAGCA
CCAGATCTGTCTTCACTCCAATTCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAG
AGTTCACCTGGACATCCAGGTAGGTGAACATGCCAATGACTATGCAGAAATTGCTGTCTAA
AGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAACAAGTGGAGCAGAT
CCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAG
CACCAACCAGCGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCTCTGTTGGCCATCGG
TGTCTGGCAGATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTC
CCAGGCGTCACAACCCATCCTCCCAGGCTGGGGGAGAAAGGACCTCCTGGAACCTGACTTC
TTCTGTGAGGAGGACTGGTTTCCAGCCATACCTGTTCTGGAAGGGAGAGGGGCTGGAGGC
ACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGGGCAA
TTCTTGCCCTCTCTCTCTGGCCTCTGGGCCGTTTGGTAGTAATCACCCAGGGGCTGGTAA
AGCCCCCTCCTCTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTG
TTGGGGGTGGGGGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCTTTTGCTAACT
TAGGGTTTTGAGCAGGTTGGGGTATGGTGCCTGTCTATACCCACCTGCCACCCTGGGAACC
TCACTGTTCTCTCTTTCAGCCTAGACCTGCTGATCCAGGTGTGTGTGAGTTGAGGGTGG
GTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTACATGG
TTGTCCATTCTGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGTGGTT
GGGGTGGGGCCTGCAGAGTCTTAGTTACTGATTTTCAATTTCAATAAATGTAGGTTTGTTA
CATGAGTTTCCC

Gene 351. >ENST00000313376 cDNA sequence

GATGACAGTGGCGCCGGAAGCCGGGGCCGGGGCTGCGGGGCGAGGCTGAGGCCACCATGG
AGCAGTGTGCGTGCGTGGAGAGAGAGCTGGACAAGGTCCTGCAGAAGTTCCTGACCTACG
GGCAGCACTGTGAGCGGAGCCTGGAGGAGCTGCTGCACTACGTGGGCCAGCTGCGGGCTG
AGCTGGCCAGCGCAGCCCTCCAGGGGACCCCTCTCTCAGCCACCCTCTCTCTGGTGATGT
CACAGTGCTGCCGGAAGATCAAAGATACGGTGCAGAACTGGCTTCGGACCATAAGGACA
TTCACAGCAGTGTATCCGAGTGGGCAAAGCCATTGACAGGAACTTCGACTCTGAGATCT

FIGURE 1 (CONT'D)

GTGGTGTGTGTGTCAGATGCGGTGTGGGACGCGCGGGAACAGCAGCAGCAGATCCTGCAGA
TGGCCATCGTGGAACACCTGTATCAGCAGGGCATGCTCAGCGTGGCCGAGGAGCTGTGCC
AGGAATCAACGCTGAATGTGGACTTGGATTTCAAGCAGCCTTTCTAGAGTTGAATCGAA
TCCTGGAAGCCCTGCACGAACAAGACCTGGGTCTGCGTTGGAATGGGCCGTCTCCACA
GGCAGCGCCTGCTGGAACCTCAACAGCTCCCTGGAGTTCAAGCTGCACCGACTGCACTTCA
TCCGCTCTTGGCAGGAGGCCCGCGAAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACT
TCCAGCCCTTTGCTCGGCTGCACCAGCGGGAGATCCAGGTGATGATGGGCAGCCTGGTGT
ACCTGCGGCTGGGCTTGGAGAAGTCACCTACTGCCACCTGCTGGACAGCAGCCACTGGG
CAGAGATCTGTGAGACCTTTACCCGGGACGCTGTTCCCTGCTGGGGCTTTCTGTGGAGT
CCCCCTTAGCGTCAGCTTTGCCTCTGGCTGTGTGGCGCTGCCTGTGTTGATGAACATCA
AGGCTGTGATTGAGCAGCGGCAGTGCCTGGGGTCTGGAATCACAAGGACGAGTTACCGA
TTGAGATTGAACTAGGCATGAAGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
GCCAGCAGACGTGAGTTCAACCTCCCATCAAGCTCATCTGTGGCCATGTTATCTCCC
GAGATGCACTCAATAAGCTCATTAAATGGAGGAAAGCTGAAGTGTCCCTACTGTCCCATGG
AGCAGAACCCGGCAGATGGGAAACGCATCATATTCTGATTCTACCTGGAAGGAATTTTG
TTGAAAGGGGTTTTTACCTGTGAGCCTTGGTCTGTCTCGGTAGGGTGGTCAACTTCAGTG
GACTGTGGTTGGTTTTAGAGCGCCTGGCTGAGGAGTTCCACTGAGGGGAGCACTGGAGCA
GCCCTTTGGCAGAGGCTGAGGAGGGAGATGGACCAGCCACGCTGGCACCTGGCTCCAT
GGCATAAGGAAAGGGAGATGCTGGCCTCTGTGCTCCTGCTGTCTTTTCTGTTTCTGTTT
GCGTTTGACTTAGTAGCAACCGACAGAGTGGCAAGGGATTTGGTCTTCAGCAGTAGACAT
CCTTCCACCCCTGCCCTCAGCCAAGTCTCTTGTGCTGCCATGCCAATGCTATGTCCACCTT
GCCCTCGGCCCAAGAGTGTCCAGCGGTGGCCACCTCTTCTCCCTACAGCCTCAAC
AGTATGTACCATCTCCCACTGTAAATAGTCCCAGTTAGAACGGAATGCCGTTGTTTTATA
ACTTTGAACAAATGT

Gene 352. >ENST00000261953 cDNA sequence

AAAGGGCGCCACGAGTCGGCATTGTGAGGCGGCGGCACCGCGCGGGACGGAGCTTGGCTG
TTGGTGGTGGGTTCCCGTGCAGCGGCGGCCAAGGAGGAGGAGACACAGTTGGAGCAGCT
CCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGGGCGGAGCCTGCGG
CGCCTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGCGTCATCGGCGGCGAGGAGCCG
CCGCGCCTCGGCCTAGCATGTGCGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCG
CCACCGAGAACGGACATGAGGCCGTCCCCGAAGGCGAGTCGCCGGCCGGGGCTGGCACGG
GCGCCGCGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGAATCAGAACGGCGCCGG
ACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTGTTGGTGGCCTGA
GCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTG
ACTGTACAATAAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGT
TCAAAGATGCAGCCAGTGTGGAGAAGGTCTAGACCAGAAGGAGCACAGGCTGGATGGCC
GTGTCAATTGACCTAAAAAGGCCATGGCTATGAAGAAGGACCCGGTGAAGAAAATCTTCG
TTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGTTTG
GGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTG
TGTTTATCACCTTTAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATA
CTGTGAGTGAAGCAAGTGTGAGATCAAGGTGGCCAGCCCAAGAAGTCTATCAGCAGC
AGCAGTATGGCTCTGGGGGCCGTGGAAACCGCAACCGAGGGAACCGAGGCAGCGGAGGTG
GTGGTGGAGGTGGAGGTGAGAGTCAGAGTCAGAGTTGGAATCAGGGCTACGGCAACTACTGGAACC
AGGGCTACGGCTACAGCAGGGCTACGGGCCTGGCTATGGCGGCTACGACTACTCGCCCT
ATGGCTATTACGGCTACGGCCCCGGCTACGACTACAGTCAGGGTAGTACAACTACGGCA
AGAGCCAGCGACGTGGTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGA
GCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGTGAACACAATTATGTACCA
AATTTAACTTGGCAAACTTTCTATTGCCTGTCCCATGTGCATCTTATTTAAAATTTCCCC
CATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCA
GGTGGGAGGCTCTGCTTCCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTA
AAGAGTAAATTGTATCTTAGGAAACAGTGTACCTTTTTTTTACCTTTTAATTTTATAT
TATTTGCGTCATACATTTCTGTAAACGGAAGTGTAAATTTTACTGTACTTTTTTGGTACCT
TTTGGGAATCTAATGTATTGTAAGGTATTTTACAGTGTCTGATTTTGCCACAACCTGG

FIGURE 1 (CONT'D)

ATATTGAAGCTATCCAAGCTTTTGAAATAAAATTTAAAAACCCCC

Gene 353. >ENST00000307328 cDNA sequence

GTCAGGCGGGCGGACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCCGTGCGG
CGGCGGCCAAGGAGGAGGAGACACAGTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGC
CTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGCCTTCCCCTGCGGGTGGGGAC
GAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCGCGCCTCGGCCTAGCATGTGCG
GAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCC
GTCCCCGAAGGCGAGTCGCGCGGCGGGGCTGGCACGGGCGCCGCGGGGCTGGAGGCGCGA
CCGCGGCGCCCCGAGCGGGAATCAGAACGGGCGCCGACAGATCAACGCCAGCAAGAAC
GAGGAGGACGCGGGAATAATGTTTCGTTGGTGGCCTGAGCTGGGATACTAGCAAAAAGAT
TTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAATAAAAATGGATCCC
AACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAG
AAGGTCCTAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCC
ATGGCTATGAAGAAGGACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCC
ACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGTTTGGGGAGATTGAGGCCATTGAATTG
CCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCACCTTTAAAGAAGAA
GAACCCGTGAAGAAGGTTCTGGAGAAAAGTTCCATACTGTCAAGTGAAGCAAGTGTGAG
ATCAAGGTGGCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGT
GGAAACCGCAACCGAGGGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGGT
AGTACAACTACGGCAAGAGCCAGCGACGTGGTGGCCATCAGAATAACTACAAGCCATAC
TGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGTGA
ACACAATTATGTACCAATTTAACTTGGCAAACTTTCTATTGCCTGTCCCATGTGCATCT
TATTTAAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTG
TTTAGGCAGCGTGTGGTGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACC
AGGTCCCCCAGAAGCAGGTGGGAGGCTCTGCTTCCTGCTGCCGCTCTGCAGCCTGGACCT
GTGGACCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACAGTGTACCTTTTTTTTCA
CCTTTTAAATTTTATATTATTTGCGTCATACATTTTCTGTAAACGGAAGTGTTAATTTTACT
GTACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGA
TTTTGCCACAACCTGGATATTGAAGCTATCCAAGCTTTTGAAATAAAATTTAAAAACCCC
C

Gene 354. >ENST00000310389 cDNA sequence

ATCTTCGGCGGGCGAGTGGGCTCGGCCTGTGCAACCCGCACCTGCGTCCCTCGCCCCGGCC
CGATGGCGCCGCGGCGCTGGGCCCCCTTGGTGTGGCGCTGGGCGGCGCCGCGGCGGTGC
TGGGCTCGGTGCTCTTCATCCTCTGGAAGACCTACTTCGGCCGCGGCGGAGAGCGGCGCT
GGGACCGGGGAGAGGCCTGGTGGGGCGCGGAGGCTGCCCCGCTCCCCGAGTGGGACGAGT
GGGACCCCGAGGACGAGGAGGACGAGGAGCCGCGCTGGAGGAGCTGGAACAGCGCGAGG
TGCTGGTGTGGGGCTGGATGGCGCAGGCAAGAGCACGTTCTGCGCGTGTGTGCGGGGA
AGCCACCGCTGGAAGGCCACATCCCCACCTGGGGCTTCAACTCCGTGCGTCTGCCACCA
AGGACTTTGAGGTGGACCTGCTAGAAATTGGGGGCAGCCAGAACCTGCGCTTCTACTGGA
AGGAGTTTGTGAGCGAGGTGGATGTGCTGGTGTGTTGTGGTGGACTCGGCTGACCGACTGC
GGCTGCCCTGGGCCCCGACAGGAGCTGCACAAGCTGCTGGACAAGGACCCTGACCTGCCTG
TCGTGCTGGTGGCCAACAAGCAGGACCTGAGCGAGGCCATGAGTATGGGGGAGCTGCAGC
GGGAGCTGGGTCTACAGGCTATCGATAACAGCGGGAGGTTTTCTCTTGGCAGCCAGCA
TTGCCCTGACAGGACCCACCTTTGAAGAGCCTGGCACCGTGACATCTGGAACTGCTCT
TGGAGCTCCTCTCCTAGGCTGGAGCTCTCCTGCTTGCCACCTGCCTGTCAAGACCATAGT
TGTAAGTGTGCTGCTTCATTGCCAGACTGGGCTGGGGCAAGAGCCACATGGCAGCATTT
CCCTTTTCCCCTCCTTTGCCTTTCAAGAGCAGGGCCTGGGCAAGGCCAAGAACCATGCAG
AAGCCTTCCTGGTGAAGTGGCCGTGAAGCCGAAGCAGGGAGGTGGGTGAGACAGAGGGTG
GGGAGGATAGTGTCTGGCTCATTCCAGGCTGGAATGTGGATCCAGCTTTCCCTTCTCTTA
CCTGTACAGTGAGATGCTCAGTGGGCTCAATCCTCCACTACAGGTCCCGGTACCTGAGGA
ACCAAGTGTAGGTGTGAGAAATACTCCTAGAGCCTCAAGGTCTCCAGTCCAGAAACAGTC
TGGTGACGTATGCCCTTCTCATGTGGGCAGCTTCTGAGTGGTGACACAGCAAGCCTTTG
TTCCTGTCTGCATTGTCCAGCCCCAGCTCCACCTAAGTGACTTGTGGCCTTGTGCAATC
TCTGCCTCTTGACCCAGGGCCATTATTTTAAAGGGAGGTGGTTTCTAATTGCGAGA

FIGURE 1 (CONT'D)

TGCCTTTCCAGCCATGGGAGTGTGAAGTGCTAGGATGAACCTGGCCATCCTAGCAAGGA
GCTTTCTGAAGACCTCCCTGCCTTTCCCTGAGCCCAGGCCTGGCCTGCCAGCCTCTCTTG
ACTACAGAATAACTGATATTCACCCACCAAACAGAAAAAGTGAAGGCTGGGTTTTTCCCC
TCTAATCTGGAGACAAGCTGCTGCTCTCGTACTAACTGTGCCAGTGCCCATGTTTACAGA
AGTCAGGGGAAGGAAGGAGCCTGTGTCCCTGGGACGACAGTCAACTGGAGCTAGGTGTTG
ACCTCAGAACTGCATTTTTATTATTATAATTTATAAGCAGAACAGGCCAGAGTTCTAGGCTC
TGTTTCTAGGTGCTGTTTTCAAACCCCCAGATGACAGTCATAGAAAATTTGGAACCTTAGG
AAAATAGCTGGAATCATGAATGACAATGAGATAACATACAGATGTCAGTGGAGACAAAGT
TGTGGGTTCCCTCCACCTGGCTTTGAGGCTGTCTGATATCATAGTACTTTACATG
GATTACATGAACTGAAACGCCACCACTTGGCCCAGGATGTTGAAAGGGTGCAAATTCCT
TCTGGGTAGATAAGAAATGACTCTGGGAGAGGATTTCCCTTATGTGAATCTAGGTAAAAA
GATGGAAAAAAATTGTATTATGTGATCCTAAGGACAGGAATAGCAGACCAGCCAACGGGA
TGGCCTTGGGTACATCACTCAGCCTTTCTGGACCCAATTTTTTCCCAGTGAAAGCCAAGT
TGGACTGAATTTCTGGAGTTCTCATCAGTGCACATTCCATAGTTCTCCAGTGCTTGGCGA
TCAGCCCAATTGAAGGACTGGCTCTGTACTGACACTTATTATCGGTACAGGCAAAGAGGA
GCCTGTTGTCTGTTAGGGACCACTAAATCAACAACCACAAATGGATTTTTTTTTTTAAGAG
GAGCTGTGCACCTCAATTTGCTGTCTAGTTGAGAATAGAGATTGTGTGCCTTCATTTCAT
TT

Gene 355. >ENST00000327101 cDNA sequence

GAGAGACAGAGGCAGCGTGTTTTGAGCTGCTGGTGCGGTGGTCAGCGCGATGCCCAAGGCC
AAGGGCAAAACCCGGAGGCAGAAAGTTTGTTACAGTGTCAACCGAAAGCGTCTGAACCGG
AATGCTCGACGGAAGGCAGCGCCGCGGATCGAATGCTCCACATCCGACATGCCTGGGAC
CACGCTAAATCGGTACGGCAGAACTGGCCGAGATGGGGTTGGCTGTGGACCCCAACAGG
GCGGTGCCCCCTCCGTAAGAGAAAGGTGAAGGCCATGGAGGTGGACATAGAGGAGAGGCCT
AAAGAGCTTGTACGGAAGCCCTATGTGCTGAATGACCTGGAGGCAGAAAGCCAGCCTTCCA
GAAAAGAAAGGAAATACTCTGTCTCGGGACCTCATTGACTATGTACGCTACATGGTAGAG
AACCACGGGGAGGACTATAAGGCCATGGCCCGTGATGAGAAGAATTACTATCAAGATACC
CCAAAACAGATTCCGGAGTAAGATCAACGTCTATAAACGCTTTTACCCAGCAGAGTGGCAA
GACTTCCTCGATTCTTTGCAGAAGAGGAAGATGGAGGTGGAGTGAAGTGGTTTACATCACA
GCTGCCCCAGGCTGAGGCGTCCCCCGGACCAAGTGAAGCTGGAGCCAGGGTGTAAAGCAAG
GAGGTGCTGTGTGGCTCCAGAGGAGCTGGCCAGGTCCCATGGAATCAGAAGGTTACACAC
ACGTGCACACTCCCCGCTCTGGGGAAGGAACTGTTCTCAGAGGCTCCAATTTATATTAT
CTGGGGGTTTACGGAAAAGCCAGAACCTGCTGTTTTTCAAGGTGGGTGATGTAAATATAGT
GTGTACATAATAAGCAAATATATTTTACTTCTCT

Gene 356. >ENST00000310407 cDNA sequence

ATGGCTGATGACTTTGGCTTCTTCTCGTCTCGGAGAGCGGTGCCCCGGAGGCGGCGGAG
GAGGACCCGGCGGCCCGCTTCTGGCCCAGCAGGAGAGCGAGATTGCAGGCATAGAGAAC
GACGAGGGCTTCCGGGCACCTGCCGGCAGCCATGCGGCCCCCGCGCAGCCGGGCCCCACG
AGTGGGGCTGGTTCTGAGGACATGGGGACCACAGTCAATGGAGATGTGTTTACAGGAGGCC
AACGGTCTGCTGATGGCTACGCAGCCATTGCCAGGCTGACAGGCTGACCCAGGAGCCT
GAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGGATGCTGCA
TCTAAGGTACGGAACAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGGAGTGGAAAC
CAGCGCCAGAGTGAACAAGTAGAGAAGAACAAGATCAACAACCGGGCATCCGAGGAGGCT
TTCGTGAAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAGGTGGCCAGCTA
TGTGACTTCAACCCCAAGAGCAGCAAGCAGTGCAGAGATGTGTCCCGCCTGCGCTCGGTG
CTCATGTCCCTGAAGCAGACGCCACTGTCCCGCTAGGTGCCTGCTAGGTGCATGGCCACA
GAGCATGGGCTGGGCTGGGCACAGGAGGAGCAGCTGCTTTGGTCCGGGTGGAGACTCGC
AGCAGCTGCTACCCACAGCCTATTCCACTCCTCCCCATCTCCAGGCGCTGGGAGGGGGGC
CCTCACCCCATCACGCCTCGCTCCCTCCTGGCCCTCTGGTCCAGCCCTCACGCCTCCTC
TCAGTCTACTCAATTGTGACTGTCCCTCCTGATGTATTTTTTTTCTTGGCTTAAAGGGTG
TGTTGTTGACTCTTTTTACACTTATTTATTATCATTTCTCACTTCTCTGGAAGCC

Gene 357. >ENST00000310418 cDNA sequence

ATGGCTGATGACTTTGGCTTCTTCTCGTCTCGGAGAGCGGTGCCCCGGAGGCGGCGGAG
GAGGACCCGGCGGCCCGCTTCTGGCCCAGCAGGAGAGCGAGATTGCAGGCATAGAGAAC

FIGURE 1 (CONT'D)

GACGAGGGCTTCGGGGCACCTGCCGGCAGCCATGCGGCCCCGCGCAGCCGGGCCCCACG
 AGTGGGGCTGGTTCTGAGGACATGGGGACCACAGTCAATGGAGATGTGTTTCAGGAGGCC
 AACGGTCCTGCTGATGGCTACGCAGCCATTGCCAGGCTGACAGGCTGACCCAGGAGCCT
 GAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGGATGCTGCA
 TCTAAGGTACCGAACAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGGAGTGGAAC
 CAGCGCCAGAGTGAAACAAGTAGAGAAGAAACAAGATCAACAACCGGATCGCTGACAAAGCA
 TTCTACCAGCAGCCAGATGCTGATATCATCGGCTACGTGGCATCCGAGGAGGCTTTCTGTG
 AAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAGGTGGCCAGCTATGTGAC
 TTCAACCCCAAGAGCAGCAAGCAGTGCAAAGATGTGTCCCGCCTGCGCTCGGTGCTCATG
 TCCCTGAAGCAGACGCCACTGTCCCGCTAGGTGCCTGCTAGGTGCATGGCCACAGAGCAT
 GGGCTGGGCCTGGGCACAGGAGGAGCAGCTGCTTTGGTGGGGTGGAGACTCGCAGCAGC
 TGCTACCCACAGCCTATTCCACTCCTCCCCATCTCCAGGCGCTGGGAGGGGGGCCCTCAC
 CCCATCACGCCTCGCTCCCTCCTGGCCCTCTGGTCCAGCCCTCACGCCTCCTCTCAGTC
 TACTCAATTGTGACTGTCCCTCCTGATGTATTTTTTTTCTTGGCTTAAAGGGTGTGTTGT
 TGACTCTTTTTTACACTTATTTTATTATCATTCTCACTTCTCTGGAAGCCA

Gene 358. >ENST00000298569 cDNA sequence

GGTACTGCTACCTAGTGGGTCTTGGGGACCTTCGAAATCGCCGCCGCTCTCACAATGGCT
 TGGGTCCAGACTGCGCCACAGCCTCTCGGGAGACGTGGGCCCTCGGAACCTTTTTAGTGC
 CGGACTCCGGGCCCGCAGGCAGTCCCGCGGCAGCAGGATCACAGAACCTCTGGATGGACTC
 TTCCTGGGAAGCTTTGCTACTTTGCAGCAGCTGGACCATGTTCTCATTAAACATCTGTCT
 GTCCGCTTAGTCATCACATCATTTCACTGTGGTGGCAGGACTCAGCTCGGAATTCTGTA
 TAGAAAAAGCACCTGGATCCAGTCTTTCAATGGCTTCAAGACAACCAGAAGTGCCTGCT
 CTTGAGGCTAGTGCGCCTCTAGGCAAGATGTCCCTGCCCATCGGGATATACCGCCGGGCA
 GTCAGCTATGATGATACCCCTCGAGGACCTGCGCCCATGACTCCTCCTCCATCGGACATG
 GGCAGCGTCCCTTGAAGCCAGTGATTCCAGAGCGCAAGTATCAGCACCTCGCCAAGGTG
 GAGGAAGGAGAGGCCAGTCTACCCCTCCCCTGCCATGACCCTGTCTATCAGCCATTGACAGT
 GTGGACAAGGTCCCAGTGGTGAAGGCTAAAGCTACCCATGTCTATCATGAATTCTCTGATC
 AAAAAACAGACCCAGGAAAGCATTTCAGCATTTTGGAGCGACAGGCAGGGCTGAGAGATGCT
 GGCTACACACCCCAAGGGCCTCACCACCGAGGAGACCAAGTACCTTCGAGTGGCCGAA
 GCACTCCACAAACTAAAGTTACAGAGTGGAGAGGTAACAAAAGAAGAGAGGCAGCCTGCA
 TCAGCCCAGTCCACCCCAAGCACCACTCCGCACTCTTACCTAAGCAGAGGCCAGGGGC
 TGGTTCACTTCTGGTTCTTCCACAGCCTTACCTGGCCCAAATCCTAGCACCATGGACTCT
 GGAAGTGGGGATAAGGACAGAACTTGTGAGATAAGTGGAGCCTCTTTGGACCGAGATCC
 CTTCAGAAGTACGATTCTGGAAGTTTTGCCACCCAGGCCTACCGAGGAGCCAGAAGCCC
 TCTCCATTGGAAGTGATACGTGCCCAGGCCAACCGAATGGCTGAAGATCCAGCAGCCTTG
 AAGCCCCCAAGATGGACATCCAGTGATGGAAGGAAAGAAACAGCCACCACGGGCCCAT
 AACCTCAAACCCCGTGACCTGAATGTGCTCACACCCACTGGCTTCTAGAGCCCTCTTTCC
 AGGGATTCTGGTAAAGGTGGTTTCTTGTCATCCCACTCCCCTTTTACCTTGGCTTTGACAT
 AGGAAAGGTATATTTAAAACTTAATCAGCTGGGCGTGGTGGCTCACGCCTGTAATCCCA
 GCACTTTGGGAGGCCAAGGTAGGTGGATACCTGAGGTGAGGAGTTCAAGACCAGCCTGGC
 CAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTGGGCGTGGTGGTGGG
 CGCCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCCAGGAAGC
 AGATGTTGTACCGAGCTGAGATCATGCCATTACACTCCAGCCTGGGCGACAGAACGAGAC
 GCCATCAATAAATAAATAAAGTAAAGTAAAAAACCTATTAAATTGAGGCTAGAGCT
 GGAGATGTAATTGGTTTTTGGAGAAACATTAGTATAAAGCTTGCCCTTGTTGTGTGGAAGA
 AGCCATTTTGTACTGCTTTAAAGTTAGACTAATATTCTCAGCACGGGTGTATGGGGACCT
 CATTACCTATTTTTTTTTCATCATTTACCCCTAGGTAAGAACTTTGATCACTGCTTACTAGGT
 AAAGAATGTTTGTACTGTTCCAAAACCCAGGCTTCTTTATTCTTTTACCCTATCCATGT
 GAGCATTGACAAATCATGGCTTAGAGGTGCTCACTGACTCGCTAAGACGACTTTGGCCCT
 GTTGATGACTGGTGTGTGCTCCAGCCTTATCAGTTAGGGGACCCAAGGTTTGTGTTGGGA
 CCTGGGTACAGGTAAAAGCCAGACTTGGCAGGGACCCCTCTTTCTAGGCTGAACCTTGAG
 TCCCCCTGCTTTTTTGGCAGACCTAATGGATCACTGTCTTGAGCTAGTTCTTCATGTGGG
 GCCTCTTAGGCCAGTGCCGGAGGAGGCATGCTCCTCTTTCTATGCCACAGAACAAACACT
 ACTCTAGCAGAGCCTTTCTTGCACTTTAAAGTGAGATTAATTTAGCTGTAATTTGGTTAA

FIGURE 1 (CONT'D)

AAACTTCCTAAGAGAGAAAAATTAAGTCTACTGATTTGGTATAGGTAAATGGACATTAAAC
TTTTTTTAAAGTAAAGGAGATGGTAGATACCGTTAGATTATAGTCTTGAGGTTTCATGTGAA
GCCAGTGGTGTAACTTACTTTGATTTCTTTGTTTCTGATGAAAGCATTTTTACCAAAATGAGCCTC
GGGAGGTCACTCAATTCAAAATTTTCTGTATGAAAGCATTTTTACCAAAATGAGCCTC
ATCCCTTTATGCAACACATAACCTTACTGAGGGAGGGAAATACAGAAGCCACCTTTTAT
TTCTCTTCACTGTGTACAAGTTCACTTGTGTCTTGAACACTGTCTCAAATACCTGCTTT
TTGTTTTGGATAGTACCTTGTCTGTATAAGAAGCTGGCCTTTCCATAGAGAGGCCCTGGA
GTCTAAAATTATGAGAACAATTAATTTATTTGTGTCTTCTATTATGATCTCGTTTTGACA
ATAAAAATCCTTACTACTTTCTC

Gene 359. >ENST00000330147 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGACCG
CCCTTAATCCTTTTAAACCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTACAGATCAACAGGATCCCAAGGCAGAGGAATTTTCTTAGTGCAGAACAAA
ATGAAAACCTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCGCCTTTCTATTCCACAAAGCCGCCATTGTCATCCTGGCCC
GTTCTCAATGAGCTGTTGGGCACACCTCCAGACGGGGTGGTGGTGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 360. >ENST00000303137 cDNA sequence

ATGGCACCAGCATCTGCTTCTGGTGAGGACCTCAGGAAGCTTCCAACCATGGCAGAGGTG
AATGGGGAGCAGGACTTCATTGACTTAACTAGAGAGACCAGACCAAGGACAAAAGATCGC
AGTGGACTGTATGTGATTGACCTGACAAGAGCTGAGGGAGAAAATAGACCTATTGCCACT
CTTGACTTAACTTTAGAACCTGTCACTCCTTCCAGAAGGAGCCAACCACTCTTCAGACA
TGTGCCAGCCTCTCTGGCAAAGCGGTGATGGAAGGGCACGTGGACAGAAGCTCTCAGCCT
ACAGCACGGAGAATCATTACAGTGATCCTGTAGATTTGGACCTAGTGAAGAAAACACC
TTTGTAGGTCCCCACCCGCTACATCCATCAGTGGAGGCTCTGTTTATCCAACAGAGCCT
AATTGTAGCTCAGCCACATTACAGGTAACCTCAGCTTCTTGGCAAGTCTACAGCTGTCT
TCAGATGTTAGCTCCCTCTCCCCAACAAGCAATAATAGTAGGAGCAGCAGCAGCAGCAGC
AATCAAAAAGCACCTTTGCCATGCCCACAGCAAGATGTATCTCGCCCACCACAGGCCTTG
CCGTGCCCCCTGCGACCTTTGCCATGCCCACCGAGAGCCTCACCATGTCCACCACGAGCC
TCCTCATGCCCACCACGAGCCTTGTCTATGCCCATCACAACCATGCAGTGCCAACTACCA
GCTCTAACTCACCCACCTCAAGAAGTGCCATGCCCTCGGCAGAATATCCAGGCCCACCT
CAAGACTCTCTGGGCCTACCTCAAGATGTGCCAGGGCTGCCTCAAAGCATATTACATCCA
CAAGATGTGGCATACTGCAAGACATGCCACGGTCACCAGGAGATGTGCCACAGTCACCA
AGTGATGTTTTACCGTCACCAGATGCACCACAGTCACCAGGGGGCATGCCACACTTACCG
GGAGATGTGTTACATTACCTGGAGACATGCCACACTCATCAGGGGACGTGACACACTCA
CCTAGAGACATCCCTCACTTACCAGGAGACAGGCCTGACTTTACCCAGAATGATGTACAG
AACCGTGACATGCCTATGGATATCTCAGCTCTGTCTCTCCAAGCTGCTCTCCAGCCCA
CAGTCTGAAACTCCCTTAGAGAAAGTTCTTTGGCTCTCTGTATGGAAACCCAGCCAGA
AAAGAAATATCACTGTGAGAGCCTGCCAAACCTGGGTCTGCCACGTACAATCACGAACA
CCACAAGGTGGGTTGTACAACAGACCATGCCTGCATAGACTGAAGTACTTCTTACGTCTCT
CCGGTTCATCACCTCTTCTTTTCTGACGCTAATACCGGATAAAGACACAAGAGAGAAACAAG
GGTCAAAAATTAGAACCCATCCCTCATCGAAGACTAAGAATGGTAACAAATACCATTGAA
GAGAATTTTCTCTGGGGACTGTGCAGTTTTTGTATGGACTTTGTGTACCCCAGCATTAC
CCACCAAGAGAAATCGTGGCTCACATCATCCAGAAAATCTTGCTCAGTGGCTCTGAGACT
GTGGATGTCTTAAAGGAGGCCTACATGCTTCTCATGAAAATTCAACAGCTACATCCAGCC
AATGCCAAGACAGTGGAGTGGGACTGGAACTGCTCACCTATGTATGGAGGAAGAGGGA
CAAACCTCTGCCTGGGCGAGTCCTTTTCTGCGTTATGTCTGTTAGACCTAGAAGATGAC
TTTTCAGCAGACCCTGAGGAGGCAACCGGCAGCACCTGCAGCAATCCATTGCAAACATGGTG
CTTTCTGTGACAAGCAGCCCCACAATGTGAGGGATGTTATCAAGTGGCTGGTCAAAGCA
GTAACCTGAAGATGGATTGACTCAGCCCCCAATGGAAATCAAACGTCTTCAGGAACAGGA
ATCTTGAAAGCCAGCAGTAGCCACCCTTCTTCCAGCCCAACCTGACAAAGAACACCAAT
CAGCTGATTGTGTGCCAGCTTTCAGAGGATGCTCTCCATAGCCGTAGAGGTGGACAGGACC
CCCACCTGCAGCTCCAATAAAATTGCCGAGATGATGTTTGGGTTTGTGCTGGACATTCTT
GAGAGGAGCCAGAGAGAAATGTTCTTTACTACCATGGAAAGCCACCTTCTGCGCTGCAA

FIGURE 1 (CONT'D)

GTGTTAGAAATCATATTCTCCACAGCTGTGAGACACCCACCCGCCTGCCTCTGTCTCTG
 GCCCAGGCCCTCTACTTTCTGAATAATTCTACGTCACTGCTCAAGTGTCAAGTGTGAGTATGAGTATG
 AGCCAGTGGCAGACTTGGGACGAATTGGTTGAGCATCTGCAGTTTCTGCTGTCCAGTTAT
 CAACATGTTTTAAGAGAACACTTAAGGAGTTCCGTGATCGACCGAAAGGACTTAATAATC
 AAAAGGATTAAGCCCAAACCCAGCAAGGAGATGACATCACAGTGGTAGACGTAGAGAAG
 CAGATTGAGGCCTTCCGCAGCCGCCTGATCCAGATGCTGGGGGAGCCTCTTGTCCCCCAA
 CTCCAAGACAAAGTGCACCTTGTGAAGCTCCTGCTCTTCTATGCTGCGGACTTGAACCT
 GATGCAGAGCCCTTTCAAAGGGCTGGAGCGGCTCCTGAGGGCTGCCAAGCACTGAATG
 CCAAGAATACCTCCTGAACCTCTCTCTCCAAGTCTCAGAAGCTCTAAAAGCATGAAAAGT
 GGTAAAATCTTACAGGACCAAACCTGCATTATTTAATCAGTAGGTTGTAATTTCTAACT
 CTAGTAAATATCTTTTTTTTAAATAATCCTATCCTAGCCTGTTCTCAAATATGGCTTAAAT
 ATACAAGGTATATATATTTTTTAAATAAATTATTTATCTATACTTTTTTGAAACAGGTTAA
 TACTCTGTGCATCACATGTTTAAACATTTTCATTCAAGATGTGGAAAAAATCCCTCTGCTG
 AACCTAGTCTATACACCAATATTATGTCAATTCAAGGTACCGACAACCTGTTTCAGGAGAG
 AGACGTTTCATTTTTCCCTAATGAAATGCAAGCATTCTGTTAGACCTATTATATTGCCTGT
 TAATTTGACTGTAATGAATAGGGGGTAGAAACAAAAGGATCAAGTGTGTTATAAAACATT
 TGATGTTAAAAGGAGACAATAAAAAGGCAATGGTTTTTC

Gene 361. >ENST00000332772 cDNA sequence

ATGCCTAGATCCTTTGAACAAGTAATAATACTTAAAAAATGGTTTCTGAAACCTTATAAG
 GGACAAACTCTGCCTGGGCGAGTCCTTTTCTGCGTTATGTGTTTCAAGCCCTAGAAGAT
 GACTTTTCAGCAGACCTGAGGAGGCAACGGCAGCACCTGCAGCAATCCATTGCAAACATG
 GTGCTTTTCTGTGACAAGCAGCCCCACAATGTGAGGGATGTTATCAAGTGGCTGGTCAA
 GCAGTAACTGAAGATGGATTGACTCAGCCCCCAAATGGAAATCAAACGTCTTCAGGAACA
 GGAATCTTGAAAGCCAGCAGTAGCCACCTTTCTTCCAGCCCAACCTGACAAAGAACACC
 AATCAGCTGATTGTGTGCCAGCTTCAGAGGATGCTCTCCATAGCCGTAGAGGTGGACAGG
 ACCCCCCACCTGCAGCTCCAATAAAATTGCCGAGATGATGTTTGGGTTTGTGCTGGACATT
 CCTGAGAGGAGCCAGAGAGAAATGTTCTTTACTACCATGGAAAGCCACCTTCTGCGCTGC
 AAAGTGTTAGAAATCATATTCTCCACAGCTGTGAGACACCCACCCGCCTGCCTCTGTCT
 CTGGCCAGGCCCTCTACTTTCTGAATAATTCTACGTCACTGCTCAAGTGTCAAGTGTGAGT
 AAAAGCCAGTGGCAGACTTGGGACGAATTGGTTGAGCATCTGCAGTTTCTGCTGTCCAGT
 TATCAACATGTTTTAAGAGAACACTTAAGGAGTTCCGTGATCGACCGAAAGGACTTAATA
 ATCAAAGGATTAAGCCCAAACCCAGCAAGGAGATGACATCACAGTGGTAGACGTAGAG
 AAGCAGATTGAGGCCTTCCGCAGCCGCCTGATCCAGATGCTGGGGGAGCCTCTTGTCCCC
 CAACTCCAAGACAAAGTGCACCTTGTGAAGCTCCTGCTCTTCTATGCTGCGGACTTGAAC
 CCTGATGCAGAGCCCTTTCAAAGGGCTGGAGCGGCTCCTGA

Gene 362. >ENST00000328082 cDNA sequence

ATGTCCAGGGGTAAAGAGAATGAGACAGGAGTTGGCGAGTTCTCTTGCTCGGCATCACC
 AGTGACTCAGGGAAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACT
 GAGGCTGGAAACACACCCATCATCCTGGGCATCGGCTCCAACCTTCGCCTGCACACCCCC
 ATGTACTTCTTACCCATCTCTCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCC
 AAGCTCCTGGTCAACCATTTGCCTGACTCAGATGTACTTCTCTCATCTCTTTGCCAACGTG
 GACACCTTTCTGCTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTG
 CAGTACTGCTCCATCATACCCCCGGCTCTGTGAGGGGCTGGCCCCCTCATCTCCCTGGTC
 CACACGGTCATCATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTCACTTTCTAC
 CGTGACGCCTACCTGCTCATGAAGATTGCCTGCTCACATACAGACAATCAGCATGTGTTT
 CTGGGGGCTGTGGTCTCTGTTCTGGCTCCCTGTGCACTCATCTTGGTCTCTTACATCCGC
 ATTGCTGCAGCCATCCTCCGATTCCATCTCTTACAAGAAGGCGCAAGGCATGTTCCATA
 TGTAGCTCCACCTGTCTCTGGTCACCTGTTCTATGGAAGTGTCTGGGGATCTGCATA
 GACCCCCAGACTCCTTCAGCCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACC
 TCTATGCTAAACCCCTTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGA
 AGGCTCTTCAGTAGGGGCTCA

Gene 363. >ENST00000331417 cDNA sequence

AATGAGACAGGAGTTGGCGAGTTCTCTTGCTCGGCATCACCAGTCACTCAGGGAAGCAG
 CAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAACACACCC

FIGURE 1 (CONT'D)

ATCATCCTGGGCATCGGCTCCAACCTTCGCCTGCACACCCCATGTACTTCTTCACCCAT
CTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCCAAGCTCCTGGTCAACCAT
TGCCTGACTCAGATGTACTTCCTCATCTCCTTTGCCAACGTGGACACCTTTCTGCTGGCC
ATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCAGTACTGCTCCATCATC
ACCCCCCTGT CAGGGGCTGGCCGTGCTAGCGTGAGCAGGCTCAGCCTCATCTCCCTGGTC
CACACGGTCATCATGAGCAGACTGGCCTTCTGCTCCTCCGCCAGATTTTCACTTCTAC
CGTGACGCCTACCTGCTCATGAAGATTGCCTGCTCACATACAGACAATCAGCATGTGTTT
CTGGGGGCTGTGGTCCTGTTCTGGCTCCCTGTGCACTCATCTTGGTCTCCTACATCCGC
ATTGCTGCAGCCATCCTCCGGATTCCATCTCCTACAAGAAGGCGCAAGGCATGTTCCATA
TGTAGCTCCACCTGTCTCTGGTACCCTGTTCTATGGAAGTGTCTGGGGCATATGACC
CCCAGACTCCTTTT CAGCCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCT
ATGCTAAACCCCTTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGG
CTCTTCAGTAGGGGCTCA

Gene 364. >ENST00000303108 cDNA sequence

GATTCTTAAAACTTACAATCCAGATTACGATGAGGACCTGGTGCAGGAAGCTTCATCTGA
AGATGTCTGGGCGTT CATATGGTGGACAAAGACACAGAGAGAGACATTGAGATGAAACG
GCAACTACGGCGACTACGGGAGCTCCACCTATACAGCACATGGAAGAAGTACCAAGAGGC
GATGGCACCCAACGTGCTGACAATTACTCTGTGTTTCTTAGAGCGTGACGAAGGCTCCTT
GGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACGTTGCCAGGCTCTGTGAAGAA
AAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTTATAGCAGAACATCTCCCTGA
AGCATCCAATCAGAGTCTCCTCACTGTTGCCCATGCAGACGCAGGCACCCAAACCAACGG
TGACCTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGA
AGTTTCAACGATGGAGGGGGACCCAGACACACTGGCCGAATTTCTGATCAGGGATGTACT
TCAGGAGCTGTCCAGTTACAACGGTGAGGAGGAGGCCAGAGGAGGTGAAGACATCCTT
GGGAGTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACAGT
CTCTGAGGAAGCCACAGGGGTTTCAATGATGCAGGTGGACCCAGCCACGCTGGCAAAGAG
TGACCTGGAAGACCTGGAGGAGCATGTGCCAGAGCAGACAGTCTCTGAGGAAGCCACAGG
GGTTTCAATGATGCAGGTGGACCCAGCCACACTGGCAAAGCAATTGGAAGACTCCACCAT
TACAGGCAGCCACCAGCAGATGT CAGCAAGTCTTCTCTGCACCTGCAGAAGAAGCAAC
AGAAAAGACCAAAGTGGAAGAGGAAGTGAAAACCCAGAAAGCCCAAGAAGAAAACAGGAA
GCCCAGCAAGAAAAGCCGGTGAATGTCTGAAATGTTGGGACATTTTTTAATATATTTTA
GAGACCTCTGAAGGATTCTCTGACCAACAGGAAGGGCCCCGACGTGGGGATGTCAACATG
GCTCAGACTTGATGTGGATCGTGATCATTTTCGGGAAATGTGTTACTCCAAAACTTTTAT
AATCTTTGCTTAATTTGTTTTTAAATACTTTCTCTGGCTGGGCGTGGTGGCTTATGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGT CAGGAGTTCAAGACC
AGCCTGGCCAAACAAGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTAGGCGTG
GTGGCGCACTCTTGTAGTCCCAGCTATTTGGGAGGCTGAGGCAGGAGAATCACTTGAAC
CAGGAGGCGGAGGTTGCGGTGAGCCGAGATCATGCCACTGCACCCACAGCACCTGGCTACA
GAGTGAGACTTTGTCTCAAAAAAAAAAAAAAAAAAGAACAAAAAATTCTGACTTTAACCTC
TGTTTTTTCAGAGGGCACAATTGTTCTTGTATTGTTTCCATTTTACATTTTTTTCTTGAA
GTTATTTTTCCAATTGTTTTTCACTTTCTGAAGTTTTGTTTACTCGGTTTTAAGTTTTTG
TAATTTTGATAGACTTCTTTTGTGCTTTTCATTTTCTTAATGACTTTTACCTCATTTTTTAA
AACAAATCCATAGTATGGGATGATATTGATGATGAAATGTCTTACGATGATCATTTAGAG
GTTTATTTTCGAACAACTGGCAATTCCAGGAATGATGGAATAAAGCATA CGAAGTAGAAGG
ACTGGAACCTCCAGAAAAAGTACTTTAAGTTACCTACAGGTGATCCTAGTCAGGGTATGA
ATTGATAAGAAATGCCTGCACCTTCCCTCCTTCTTATCTTTCCCTTGCCTACAGAAAATT
AAAAGGCAAAACAATGGACATCTACATATTCTTCATT CAGATCAACCAGTGGCTAGCATT
TGCCACCTTTTGCAGTTTCTTTCTCTTTCCATAAGTACTTTCTTCTCTGAATCATTTGAA
AGGCAAATGAAAAAGTAGCCTAAAGTGT CAGTTTCAACCCGAAAAATAACAGCTCTGATT
TCTCATGGCTCACACTCGTCTGAAATGACTCGGGTAGAGGCTGAGGAAGGCTGTGTTGTT
TGTCTACCTGGGACTAGCACCTACTGAAAGAAGTTCTCAAGTTCTGATTGAGTTCTAAAA
TTCTTTTGAAGATTGGAATTCTTCATATGGGCACCATGGGCCGGCACTGCCACGTTTTCC
AAGGAACCTGCCAGAGCTCCTGCGGAAGCTGCTCCTCGGGCGATGGAGTCCCTTTGCTGC
TAGGCCCTTCTTCAGTCAACACAGGATGCCTGCCATT CATGAACAGGAAGGAGAGGACGG

FIGURE 1 (CONT'D)

GCTTTGAATAAAAAACAGGGATCCAGGAAATATTTGTGAGGCCATTTGGACTTCAGTGTG
AAATGGTGTAAAGATGAAGTCATTTATTCAAGAAGTAAACCTCTGCCACCTGGACTGT
GCTCAGACATTTTCATTGATTTTGTGTTAATAAACATTTTCTGGCTTTGGGAGGTGTCTCTC
TTGGTAGAGCACAGTGTCAAAGATGGACAAGATGGACACATAGTCCATTATTTGGTATTG
TTTGTGTATGGGAGCGGACCACAAATTAATGTTTGGAGAACAATTTGTGATAACACACT
GTTGAGGCTCAGTTGTACAGAACTGGAAAAGTCTTTTCAGCTTGGCACATGTCCTGATTCA
GCCTTTGTTTAACATACATTCCAATCCGGATTCTATCTTCACTGGCTACAAAGACCACCT
GATACGTGCACCACGACACAGGAGCTGCTGGAGAGGGGGTAGTGTTATCACCTCAAACCC
ACAGCCATATTTTTCAAAGCCAGCTTAGAGAGAGGTGTACTGATAGCTGCATAGAGAAC
ATGCAGTCCATCCATTCTTCCAGTGATGTACATTTCTCAATCAGTAACCACGTGGTATA
CCAGCCTTGAGTGTACATCTCCCAACCATAACCAATGGATCACCTAACTGGAGGTGGGG
GGGGCCCCCTCAGAAATGAGATTTCTGATTTTACTGTAAAATTGCCTTATTTTTTCTTTTGA
GGTGGAGTCTCACTCTGTTGCCTGGGCTGGAGTGCAATGGTGTGATCACTGCTCACTGCA
ACCTCCGCCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGCAATTA
CAGGCGCATGCCACCACTCCAGCAAATTTTTATATTTTTAGTGGAGACAGGGTTTTACC
ATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCTGCCCACCTTGGCCTCCC
AAAGTTCTGGGATTAAAGGTACGAGCCACCGCAACTGGCTGAGAATCTTTTTATTTGCTG
ATTTGTCTCTTGTGATTTTTCTTTGTTTCTGATGTCTCTTCTGATCTTTTTCTCACTTTTA
AATTGTTTTTTTTAATTGTTAAGAATTTTTCTGTCTAGTTTAGATATAAGCCCTTTATCAGA
CATGTGTTTTTGCAAATATTTTCTCCTAGTCTGTGGCTTGTATTCTGTCTCTTAACAGTCA
TTTTATTTTTACTTTTTGAAACTAAAGAAGAAGAATGGTCAGCTTTCCGTTATTCTTGTA
CAGTAATGGCAGAACCAAGTCTGCTAATGCTACATTGAGCAAAGAAAGTACCTGGTCAA
GTCCAACATTAATGAAATGGGGTAGTACATGCAGGCGGCGTTGGGGTTGGGGAGGGAACA
AATGCTTCTTGAGAGTAATATAATCTGCCATACCATCCAGGAACCTACAATGGCTATCTA
TTACCTTATTCTCTGGTTTGTGTTAATGTTCAAATCTTTCTAAAGATCCTTCAACTTTTC
TGGAAGAATCTAATCTGATAACACCATCAAAAACACATTACTTTTGGCATAATTTAA
ATTGTAAGACATCATTACATTTTATCAATGTTACATATATAAGAACTCACCCACCATATT
CCTCCTTGAGGAATTACAGCATGTAATTTCTATAACCATTTTTATAATCGTCTAACAATTT
TATAATGGATTGGCTGCTATCAATTTTTTAAAAGTCATGGCTTCTCCAGTCATTTCTTGC
TTATCAAATTTATTTTCATGAGATGGGTCTATCCTTGTATATTTGAAAATGAGGTTTGCTT
CCTTCTACTTAAAAACAACCTTGAACATACCTGTTTGGATCACATGGTCTTGTCTGATA
ACTTGGAAGAGGTTGCTTCAGCATTATTCTTATTGTTGTGGTGGTTATTATTAACATTGT
TTCATATTCCGTTTAAAAAATTAAATTTTACAC

Gene 365. >ENST00000324610 cDNA sequence

GTTGAGATGAAACGGCAACTACGGCGACTACGGGAGCTCCACCTATACAGCACATGGAAG
AAGTACCAAGAGGCGATGAAGACATCCTTGGGAGTTCCACAATGTGAGCGTGACGAAGGC
TCCTTGGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACGTTGCCAGGCTCTGTG
AAGAAAAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTTATAGCAGAACATCTC
CCTGAAGCATCCAATCAGAGTCTCCTCACTGTTGCCCATCGACTCTGTTTCTTAGGTGAC
CTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGAAGTT
CACACGATGGAGGGGGACCCAGACACACTGGCCGAATTTCTGATCAGGGATGTACTTCAG
GAGCTGTCCAGTTACAACGGTGAGGAGGAGGACCCAGAGGAGGTGAAGACATCCTTGGGA
GTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACAGTCTCT
GAGGAAGCCACAGGGGTTACATGATGCAGGTGGACCCAGCCACGCTGGCAAAGAGTGAC
CTGGAAGACCTGGAGGAGCATGTGCCAGAGCAGACAGTCTCTGAGGAAGCCACAGGGGTT
CACATGATGCAGGTGGACCCAGCCACACTGGCAAAGCGTACGTATTCTGGGATCATCTCT
TTGTTTAGGTGTGAAATCTTAGTGTTGTAA

Gene 366. >ENST00000319628 cDNA sequence

ATGGGCGACTGGAAGGTCTACATCAGTGCAGTGCTGCGGGACCAGCGCATCGACGACGTG
GCCATCGTGGGCCATGCGGACAAACAGCTGCGTGTGGGCTTCGCGGCCCGGGGGCCTGCTG
GCGGCCATCTCGCCGAGGAGGTGGGCGTGCTCACGGGGCCGGACAGGCACACCTTCCTG
CAGGCGGGCCTGAGCGTGGGGGGCCGCCGCTGCTGCGTCATCCGCGACCACCTGCTGGCC
GAGGGTGACGGCGTGCTGGACGCACGCACCAAGGGGCTGGACGCGCGCGCCGTGTGCGTG
GGCCGTGCGCCGCGCGCGCTCCTGGTGCTAATGGGCCGACGCGCGGTACATGGGGGCATC

FIGURE 1 (CONT'D)

CTCAACAAGACGGTGCACGAACTCATACGCGGGCTGCGCATGCAG

Gene 367. >ENST00000324417 cDNA sequence

CTTCATTGAGCTGCTGAGCAGAAGCTGAAACACAGAATTCTAAGCGTTGCTGAGACCCAC
TGACCTGCAGACCTCATAGTGGGTGCCAGGATGTTGTCTACGGAGAGAGGCTGGGGTC
CCCTGCTGTCTCCCACTCCAGTCCGTGGGGGGCATGTGATGCGAGGGACGGCCTTTGC
CTACGTGCCAGCCCTCAGGTCTACACAGGATCCCGGGGACCTCTGCCTATGCCTTTCC
CAGCCTGGGCCCTGTGGCCCTTGTGAGCACACCTGCCCCTGTGGGGAGGTCTGGAGCG
CCATGAACCACTGCCTGCCAAGCTGGCCCTGGAGGAGGAGCAGAAGCCAGAGTCCAGGCT
GGTCCCCAAGCTGCGCCAGGCTGGCGCCATGCTGCTCAAGGTGCCACTGATGCTCACCTT
CCTCTACCTCTTCGTCTGCTCCCTGGACATGCTCAGCTCGGCCTTCCAGCTGGCTGGAGG
GAAGGTGGCTGGTGACATCTTCAAGGATAACGCCATCCTGTCCAACCCGGTGGCCGGGCT
GGTGGTGGGGATCCTGGTGACCGTGTGGTGAGAGCTCCAGCACCTCCACATCCATCAT
CGTCAGCATGGTCTCCTCTGGCTTGTGGAGGTGAGCTCTGCCATCCCCATCATCATGGG
CTCCAACATCGGCACCTCTGTACCAACACCATCGTGGCCCTGATGCAGGCGGGGGACAG
GACTGACTTCCGGCGGGCCCTTCGCGGGGGCCACGGTGCATGACTGCTTTAACTGGCTGTC
AGTGCTGGTCTGCTGCCCCTGGAGGCTGCCACTGGCTACCTGCACCACATCACTCGACT
TGTGGTGGCCTCCTTCAACATCCATGGTGGCCGTGATGCTCCTGACCTGCTCAAGATCAT
CACAGAGCCCTTTCAGGAAGCTCATCATCCAGCTGGACGAGTCTGTGATAACCAGCATTGC
CACTGGTGATGAGTCCCTGAGGAACCAAGTCTCATCCAGATCTGGTGCCACCCAGACTC
CTTACAGGCTCCACCTCCATGTCCAGAGCAGAGGCCAACTCCAGCCAGACCCTTGGAAA
TGCCACCATGGAGAAATGCAACCACATCTTTGTGGACACTGGCCTACCGGACCTGGCTGT
GGGGCTCATCCTGCTGGCAGGATCCCTGGTGTGCTGTGACCTGCCTCATCCTCCTAGT
CAAGATGCTCAACTCCCTGCTCAAGGGCCAAGTGGCCAAGGTATCCAGAAGGTATCAA
TACGGACTTCCCTGCCCCCTTACCTGGGTACAGGCTACTTTGCCATGGTGGTGGGCGC
CAGCATGACCTTCGTGGTCCAGAGCAGTTCTGTGTTACCTCGGCCATCACCCCACTCAT
CGGTCTTGGTGTGATCAGCATTGAGAGGGCCTACCCGCTCACACTGGGTTCACACATCGG
CACCACCACACGGCCATCCTGGCTGCCCTGGCCAGCCCCAGGGAGAAGCTGTCCAGCGC
TTTCCAGATTGCCCTCTGTCACTTCTTCTTCAACATCTCGGGTATCCTTCTGTGGTACCC
GGTGGCCTGCACACGCCTGCCCATCCGCATGGCCAAGGCGCTGGGGAAACGCACGGCCAA
GTACCGCTGGTTTGGCGTCTCTATCTCCTTGTCTGCTTCTGCTGCTGCCCTCACTGGT
GTTTGGCATCTCCATGGCAGGCTGGCAGGTATGGTAGGTGTGGGTACGCCCTTCGGGGC
CCTGCTGGCCTTCGTGGTGTCTCATCAATGTCTGTCAGAGTCCGAGTCCCGGGCACCTGCC
CAAGTGGTTACAGACATGGGACTTCTGCTCGCTGGATGCACTCCCTGAAGCCCCCTGGA
CCACCTCATACCCGCGCCACCTATGCTGTGCCAGGCCTGAGCCCCGCTCACCCCGCT
GCCCCCAGGGTCTTCTGGAGGAGCTACCCCTGCCACACCTCCCCCGTCTTGCACT
GCCTGCTCACCACAATGCCACCCGCTCTAGGCTGTGGGCCAGACTACAGCCTGGAATG
GGGAAGGCCTGGGGTGGAAAGGCAGGGGAGGGAGGGTGTGTGTAGGTATGTGCATGTGCC
TGTGCCACCTGGGTGCCAGTCTCTCCTTCTGTAGCTCCGCAAAGCTCTGGGCTTGTGTG
AGAGTGTGGTGTGTGTGCATGTGTGGGGGTGAGTCTGCATGTGCACCTGTCTGTGTAG
AAGCTTGTATTTGTGTACAGGTGTGCCAGCCCATGCAGGTGTACACAGACACACCTGTGG
GAGGCTGTGTGCAGGCTGCAGGATATCTGGGTATGATTTAGGTCTCTGCACGTGTACA
CATGACTAGGATAGGCAGGAGTAAGGGTGGGTCTGGGTATATGACTGTGCAGCTGTTTGT
GCATAGATGTTGGTGCCTGCGTTACTGAATTTGCACACCTCCTTGCCACCTTCTTCTCTC
CAAGATAACCATCTCCTCATCCTAACCCAGGTCTTCGGCACCACCACAATTAATCCCTTC
CCAACACTTGCTGATGGAAAAAAACAAAGGAATTAATACTCTCCTCAGGC

Gene 368. >ENST00000329355 cDNA sequence

ATGACAGGATCAAATTCACACATAACAATATTAACCTTTAAATATAAATGGACTAAATTCT
GCAATTAAGAGACACAGACTGGCAAGTTGGATAAAGAGTCAAGACCCATCAGTGTGCTGT
ATTACAGAAACCCATCTCACGTGCAGAGACACACATAGGCTCAAAATAAAAGGATGGAGG
AAGATCTACCAAGCAAATGGAAAAAAGGAGGGGTTGCAATCCTAGTCTCTGAT
AAAACAGACTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGGCCATTACATAATGGTA
AAGGGATCAATTCACAAGAGGAGCTAACTATCCTAAATATTTATGCACCCAATACAGGA
GCACCAGATTATAAAGCAAGTCTGAGTGACCTACAAAGAGACTTAGACTCCACACA
TTAATAATGGGAGACTTTAACACCCCACTGTCAATATTAGACAGATCAACGAGACAGAAA

FIGURE 1 (CONT'D)

GTCAACAAGGATACCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATC
TACAGAACTCTCCACCCCAAATCAACAGAATATACATTTTTTTTTCAGCACCACACCACACC
TATTTCCAAAATTGACCACATAGTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAAC
GAAATTATAACAACTATCTCTCAGACCACAGTGCAATCAAAGTAACTCAGGATTAAG
AATCTCACTCAAAGCCGCTCAACTACATGGAACTGAACAACCTGCTCCTGAATGACTAC
TGGGTACATAACGAAATGAAGGCAGAAATAAGATGTTCTTTGAAACCAACGAGAACAAA
GACACCACATACCAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGAAATTTATA
GCACTAAATGCCTACAAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCACAA
TTAAAAGAACTAGAAAAGCAAGAGCAAAACACATTCAAAGCTAGCAGAAGGCAAGAAATA
ACTAAAATCAGAGCAGAACTGAAGGAAATAGAGACACAAAAAACCTTCAAAAAATCAAT
GAATCCAGGAGCTGGTTTTTTTGAAAGGATCAACAAAATTGATAGACCGCTAGCAAGACTA
ATAAAGAAAAAAGAGAGAAGAATCAAATAGACACAATAAAAAATGATAAAGGGGATATC
ACCACCGATCCCAAGAAATACAACTACCATCAGAGAATACTACAAACACCTCTACGCA
AATAAACTAGAAAATCTAGAAGAAATGGATACATTCTCGACACATACACTCTCCCAAGA
CTAAACCAGGAAGAAGTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGTGGCA
ATAATCAATAGTTTTACCAACCAAAAAGAGTCCAGGACCAGATGGATTACAGCCGAATTC
TACCAGAGGTACAAGGAGGAACTGGTACCATTCTTCTGAACTATTCCAATCAATAGAA
AAAGAGGGAATCCTCCCTAACTCATTTTTATGAGGCCAGCATATTCTGATACCAAGCCG
GGCAGAGACACAACCAAAAAAGAGAATTTTAGACCAATATCCTTGATGAACATTGATGCA
AAAATCCTCAATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAGCTTATCCAC
CATGATCAAGTGGGCTTCATCCCTGGGATGCAAGGCTGGTTCAATATACGCAAATCAATA
AATGTAATCCAGCATATAAACAGAGCCAAAGACAAAAACCATGATTATCTCAATAGAT
GCAGAAAAAGCCTTTGACAAAATTCAACAACCTTCATGCTAAAACTCTCAATAAATTA
GGTATTGATGGGACGTATTTCAAAATAATAAGAGCTATCTATGACAAACCCACAGCCAAT
ATCATACTGAATGGGCAAAAACCTGGAAGCATTCCCTTTGAAAACCTGGCACAAGACAGGGA
TGCCCTCTCTCACCGCTCCTATTCAACATAGTGTGGAAAGTTCTGGCCAGGGCAATCAGG
CAGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTT
GCAGACGACATGATTGTTTATCTAGAAAACCCCATCGTCTCAGCCCAAAATCTCCTTAAG
CTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTACAAAAACCAAGCA
TTCTTATACACCAACAACAGACAAAACAGAGAGCCAAATCATGGGTGAACTCCCATTACAA
ATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACCTTACAAGGGATGTGAAGGACCTC
TTCAAGAACTACAAACCACTGCTCAAGGAAATAAAGAGGACACAAACAAATGGAAGAAC
ATTCATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAGGTA
ATTTACAGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTACAGAATTGGAA
AAAACCTACTTTAAAGTTTCATATGGAACCAAAAAAGAGCCCGCATTGCCAAGTCAATCCTA
AGCCAAAAGAACAAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTACAAGGCT
ACAGTAACCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGATCAATGGAACAGA
ACAGAGCCCTCAGAAATAATGCCGCATATCTACAACTATCTGATCTTTGACAAACCTGAG
AAAAACAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTGGGAAAACCTGGCTA
GCCATATGTAGAAAGCTGAAACTGGATCCCTTCCTTACACCTTATACAAAAATCAATTCA
AGATGGATTAAAGATTTAAACGTTAAACCTAAACCATAAAAACCTAGAAAGAAAACCTA
GGCATTACCATTCAGGACATAGGCGTGGGCAAGGACTTCATGTCCAAAACACCAAAAGCA
ATGGCAACAAAAGACAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACA
GCAAAAGAACTACCATCAGAGTGAACAGGCAACCTACAACATGGGAGAAAATTTTCGCA
ACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTAC
AAGAAAAAACAAACCAACCCCATCAAAAAGTGGGCGAAGGACATGAACAGACACTTCTCA
AAAGAAGACATTTATGCAGCCAAAAAACACATGAAGAAATGCTCATCATCACTGGCCATC
AGAGAAATGCAAATCAAAACCACTATGAGATATCATCTCACACCAGTTAGAATGGCAATC
ATTAAAAAGTCAGGAAACAAAGGTGCTGGAGAGGATGCGGAGAAATAGGAACACTTTTA
CACTGTTGGTGGGACTGTAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCTC
AGGGATCTAGAACTAGAAATACCATTGACCCAGCCATCCATTACTGGGTATATACCCA
AATGAGTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCACTA
TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCAACAATGATAGACTGGATTAAG
AAAATGTGGCACATATACCCATGGAATACTATGCAGCCATAAAAAATGATGAGTTCATA

FIGURE 1 (CONT'D)

TCCTTTGTAGGGACATGGATGAAATTGGAAACCATCATTCTCAGTAAACTATCACAAGAA
CAAAAAACCAAACACCGCATATTCTCACTCATAGGTGGGAATTGA

Gene 369. >ENST00000230673 cDNA sequence

GGCCGGCGGCGCGGCCCGGCGGGCCAGGCGGCCACAGCCCATGGAGCTCGAGAACATC
GTAGCGAACACGGTGCTACTCAAGGCCCGGAAGGTGGCGGTGGAAATCGCAAAGGCAAA
AGCAAGAAATGGCGGCAGATGCTCCAGTTCCTTCACATCAGCCAGTGCGAAGAGCTGCGG
CTCAGCCTCGAGCGTGACTATCACAGCCTGTGCGAGCGGCAGCCCATTGGGCGCCTGCTG
TTCCGAGAGTTCTGTGCCACGAGGCCGGAGCTGAGCCGCTGCGTTCGCTTCTTGATGGG
GTGGCCGAGTATGAAGTGACCCCGGATGACAAGCGGAAGGCATGTGGGCGGCAGCTAACG
CAGAATTTTCTGAGCCACACGGGTCTGACCTCATCCCTGAGGTCCCCCGGCAGCTGGTG
ACGAACTGCACCCAGCGGCTGGAGCAGGGTCCCTGCAAAGACCTTTTCCAGGAACTCACC
CGGCTGACCCACGAGTACCTGAGCGTGGCCCCCTTTTGCCGACTACCTCGACAGCATCTAC
TTCAACCGTTTCTGTCAGTGGAAGTGCGTGGAAAGGCAGCCAGTGACCAAAAACACCTTC
AGGCAATACCGAGTCTTGGGCAAAGGTGGCTTTGGGGAGGTGTGCGCCTGCCAGGTGCGG
GCCACAGGTAAGATGTATGCCTGCAAGAAGCTAGAGAAAAAGCGGATCAAGAAGCGGAAA
GGGGAGGCCATGGCGCTGAACGAGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTA
GTGAGCTTGGCCTACGCCTATGAGACCAAGGACGCGCTGTGCCTGGTGCTGACACTGATG
AACGGGGGCGACCTCAAGTTCCACATCTACCACATGGGCCAGGCTGGCTTCCCCGAAGCG
CGGGCCGTCTTCTACGCCGCGGAGATCTGCTGTGGCCTGGAGGACCTGCACCGGGAGCGC
ATCGTGACAGGGACCTGAAGCCCCGAGAACATCTTGCTGGATGACCACGGCCACATCCGC
ATCTCTGACCTGGGACTAGCTGTGCATGTGCCCCGAGGGCCAGACCATCAAAGGGCGTGTG
GGCACCGTGGGTTACATGGCTCCGGAGGTGGTGAAAATGAACGGTACACGTTTCAAGCCT
GACTGGTGGGCGCTCGGCTGCCTCCTGTACGAGATGATCGCAGGCCAGTGCCTTCCAG
CAGAGGAAGAAGAAGATCAAGCGGGAGGAGGTGGAGCGGCTGGTGAAGGAGGTCCCCGAG
GAGTATTCCGAGCGCTTTTCCCCCGAGGCCCGCTCACTTTGCTCACAGCTCCTCTGCAAG
GACCCTGCCGAACGCCTGGGGTGTCTGTGGGGGCGAGTGCCCGGAGGTGAAGGAGCACCCC
CTCTTTAAGAAGCTGAACCTTCAAGCGGCTGGGAGCTGGCATGCTGGAGCCGCCCTTCAAG
CCTGACCCCCAGGCCATTTACTGCAAGGATGTTTCTGGACATTGAACAGTTCTCTACGGTC
AAGGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTGCCACAGGCAGT
GTGCCCATCCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGCTTCCAAGAGCTGAATGTC
TTTGGGCTGGATGGCTCAGTTCCTCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCT
CCTAAAAGGGACTGCTGCAGAGACTCTTCAGTCGCCAAGATTGCTGTGGAACTGCAGC
GACAGCGAGGAAGAGCTCCCCACCCGCTCTAGCCCCCAGCCGAGGCCCCCCACAGCAG
TTGGCGGTAGCAGCTACTCCGAGCGCCGTTTACAGTTTTGACAGTGATCTTCCCCATTG
TCCACTCAAGTCGTGGCCTGGGGAACACAGACGGAGCTGTCCCCAGTGTCTCCGTCCCT
CAGCCCCCTGGCCTGGCTGAGTTTGGCAGGGCCTGGGCCATCCCTGGGACAAAGGTGCGTC
CCTTCAGCTCTTCTCCGTGGAGCTCGGGCTTTCTGTATTTATGTATTTGTACGAATGTA
TATAGCGACCAGAGCATTCTTAATTCGCCCGCAGACCTGGCGCCCCCGCCTTGGCTCCT
GGGGGCGAGCCAGCCCTGGCTGGGAGAGCGGGAGCTGGCAGAGGAGCCACTGCCAACTCA
AGGCTCCTCTGGCCAGCTTGGATGGCTGAGGGTGGTCACACCCCTGAGCCTTCAGCACT
GTGCTGGCCACCCCGGCCTCTGAGTAAGACTCGTGCCTCCCCCTGCTGCCCTGGGCTCAG
GCTGCTACCCTCTGGGGCCCCAAAGCTGTCCCTTCTCAGTGCTTGTGAGCGCTGGGTCTGG
GGCCTCTGTATGCCCTAGGCCTGTGCCAAAGTGGCCAGAGATTGGGCTGCCTGTGATACC
CATCAGCCCACTGCCCCGCGCCGCGCCAGATAGGTCTGCCTCTGCCTTCCAGCTCCCACAG
CCTGGTCCCTGATACTGGGCTCTGTCTGTCAGACACCTCTTTAGAAACGCCCAAGCCCA
GCCCCCTAGGAGGGGGTGGGGCATCCCTGGTCAACCCTCAAACATTCCGGACTCCCCCAT
AACAATAGACACATGTGCCAGCAATAATCCGCCCCCTTCTGTGTGCGCCTGTGGGGTGC
GTGCGCGCGCGTGTGTACCTGTGTGGGTGAAGGGGATAGGGCGAGGCTGTGCCTGTGCCC
CAGGTCCCAGCCCTGGCCCTTCCCAGACTGTGATGGCCATCCTGGTCCCAGTGTTAGGGT
AGCATGGGATTACAGGGCCCTGTTTTTCCATATTTAAAGCCAATTTTTATTACTCGTTT
TGTTCAACGTAA

Gene 370. >ENST00000323249 cDNA sequence

GTGCGCGCGCCCCGCGCCTCCAGCCCAGCGCTCGGAGCCGCTTTCGCTGCCACTGTCTGC
TCCCCCGGGCCCGCCCGCCTCCCCCGCAGGCCCGGGCTCTGTCCGCTGGGCCCCGCGC

FIGURE 1 (CONT'D)

TGCTCGCCCCGAGCCAGGAGAACGAGCTCGAGGAGGATGCCTGGGCCCCGGTGCAAGGTTTC
 CCCCTCTACCCGCAGCTGTGGAGAGGAGGAAGCGGAACTAGAGATGCCCATCTGGAGTG
 AGTGCAGGACCAGGTCCCGCGCGGCCCCGGGTGAGGCACGCCCCGCGCGCCCGCGCGCC
 ATGGGAAGGAGCGGGCGCCGCTGCTGTCCCCCGCGCGCGCGCACGACTTGAGACCTGC
 CACGGGCAGCCCCCGGCGCGGGTCCCCGAGTGACGCTGGCGGCACCTGAGAGTGTGGCG
 CGGGCCCCGGGGCCACGCAGCGGAGCCAGTGTCCAGTGAAGCGTCTGAGGACCCGCGCC
 CGTGCCCGCCCATGGTGATGTCCAGGGCACCTACACGTTCTCACGTGCTTCGCCGGC
 TTCTGGCTCATCTGGGGTCTCATCGTCCTGCTCTGCTGCTTCTGCAGCTTCTTGCGCCGC
 CGCCTCAAACGGCGCCAGGAGGAGCGACTGCGCGAGCAGAACCTGCGCGCCCTAGAGCTG
 GAGCCCCTCGAACTCGAGGGCAGTCTGGCCGGGAGCCCCCGGGCTGGCGCCGCGCAG
 CCACCACCACACCGTAGCCGCTGGAGGCGCCGGCTCACGCGCACTCGCATCCGCACGTG
 CACGTGCACCCGCTGCTGCACACGGGCCCCGCGCAGCCGCACGCGCACGCGACCCACAC
 CCGCACCACCACGCGCTCCCGCACCCGCGCCTACGCACCTGTGCGTGCCGCCACGGCCC
 TGGAGCTACCCGCGCAAGCGGAATCGGACATGTCCAAACCACCGTGTTACGAAGAGGCG
 GTGCTGATGGCAGAGCCGCGCGCCCTATAGCGAGGTGCTCACGGACACGCGCGGCCTC
 TACCGCAAGATCGTCACGCCCTTCTGAGTCGCCGCGACAGCGCGGAGAAGCAGGAGCAG
 CCGCCTCCAGCTACAAGCCGCTCTTCTGGACCGGGGCTACACCTCGGCGCTGCACCTG
 CCCAGCGCCCCCTCGGCCCGCGCCGCTGCCCAGCCCTCTGCCTGCAGGCCGACCGTGGC
 CGCCGGGTCTTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCCTGGAGCAC
 GGAGCTTGGCGTCTGCCGGTCTCCATCCCCCTTGTTTGGGAGGACTACAGCCGTATAGAGG
 GCGCCCCGGCGCCCCGGGCCCCACCGGCGGACTCCTGGCCTGACTGCGGGGCTTTTTTAAA
 TGCTTCCCTGGACTGCGGGGAGGGGCGGGGGGAGGGAGGGATTTCTTATCCCGTTTGTTA
 CATTTTGAGGATAATAAAGGTGTGTGATCTGGTTTGGT

Gene 371. >ENST00000253496 cDNA sequence

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGCTCT
 GCTGCTCCTGGGGTTTCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGA
 AGCCCCCAAGGAGCATAAGTACAAAGCTGAAGAGCACACAGTCGTTCTCACTGTACCCGG
 GGAGCCCTGCCACTTCCCCTTCCAGTACCACCGGCAGCTGTACCACAAATGTACCCACAA
 GGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCAACTTTGATCAGGACCAGCG
 ATGGGGATACTGTTTGGAGCCCAAGAAAGTGAAAGACCACTGCAGCAAACACAGCCCCTG
 CCAGAAAGGAGGGACCTGTGTGAACATGCCAAGCGGCCCCCACTGTCTCTGTCCACAACA
 CCTCACTGGAAACCACTGCCAGAAAGAGAAGTGCTTTGAGCCTCAGCTTCTCCGGTTTTTT
 CCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGCCAGATGCCAGTGCAA
 GGGTCTTGATGCCCACTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
 CCATGGGGGTGCTGCCTAGAGGTGGAGGGCCACCGCCTGTGCCACTGCCCGGTGGGCTA
 CACCGGACCCCTTCTGCGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAG
 CTACCGCGGCCTGGCCAGGACCACGCTCTCGGGTGCGCCCTGTGAGCCGTGGGCCTCGGA
 GGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAACTGGGGACTGGGCGGCCACGC
 CTTCTGCCGGAACCCGGACAACGACATCCGCCCGTGGTGCTTCGTGCTGAACCGCGACCG
 GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCC
 GACCCCGGTGTCCCCTAGGCTTCATGTCCCACTCATGCCCGCGCAGCCGGCACCCCGGAA
 GCCTCAGCCCACGACCCGGACCCCGCCTCAGTCCAGACCCCGGGAGCCTTGCCGGCGAA
 GCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTGCGGGCAGCGGCTCCG
 CAAGAGTCTGTCTTCGATGACCCGCGTCGTTGGCGGGCTGGTGGCGCTACGCGGGGCGCA
 CCCCTACATCGCCGCGCTGTACTGGGGCCACAGTTTCTGCGCCGGCAGCCTCATCGCCCC
 CTGCTGGGTGCTGACGGCCGCTCACTGCCTGCAGGACCGGCGGCCCGCACCCGAGGATCT
 GACGGTGGTGCTCGGCCAGGAACGCCGTAACACAGCTGTGAGCCGTGCCAGACGTTGGC
 CGTGCGCTCCTACCGCTTGACAGAGGCCTTCTCGCCCGTCAGTACCAGCACGACCTGGC
 TCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTCA
 GCCGGTGTGCTGCCAAGCGGCGCCGCGGACCCCTCCGAGACCACGCTCTGCCAGGTGGC
 CGGCTGGGGCCACAGTTTCGAGGGGGCGGAGGAATATGCCAGCTTCTGCGAGGAGGCGCA
 GGTACCGTTCTCTCCCTGGAGCGCTGCTCAGCCCCGGACGTGCACGGATCCTCCATCCT
 CCCCAGCATGCTCTGCGCAGGGTTCTCGAGGGCGGCACCGATGCGTGCCAGGGTGATTTC
 CGGAGGCCCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCAT

FIGURE 1 (CONT'D)

CATCAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGC
CTACTACCTGGCCTGGATCCGGGAGCACACCGTTTCCTGATTGCTCAGGGACTCATCTTT
CCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGCTGGGGCATGGAAGGCAAGATTGTGTCC
CATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGCAGGAACTCAATAAAGTGCTTT
GAAAATGCTGAG

Gene 372. >ENST00000274826 cDNA sequence

ATGACTCGGGGAGCCAGACTGCGATCAGACGCGCGTGCCAGCTGAACCAGCTGTCTCTG
GACGGAGGGACGGGAAGTGGCCAGAAGGGGAAGTGTGAGGAGTTCCCGTCCAGCCTGTCA
TCAGTCTCCCCAGGTCTTGAAGCGGCGGCCCTGCTCCTGGCCGTGACCATGGACCTCTG
GAGACCCCTATCAAGGATGGCATCCTCTACCAGCAGCATGTCAAGTTTGGCAAGAAGTGC
TGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCCATCAGGCGTGGCACGGCTGGAG
AGCTGGGAGGTCCGGGATGGTGGCCTGGGAGCAGCGGGTGACAGGTGGCAGGGCCTGGC
CGGCGAGGGGAGCGACGGGTATCCGCTGGCTGACTGTGTGTCCGTGCTGCCGGCTGAC
GGCGAGAGCTGCCCCCGGGACACCGGTGCCTTCTGCTCACCACCACCGAGCGAAGCCAT
CTACTGGCTGCTCAGCACCGCCAGGCCTGGATGGGCCCCATCTGCCAGCTGGCCTTCCCG
GGGACAGGGGAGGCCTCCTCAGGATCCACAGATGCCCAGTCTCCCAAGAGGGGCCTGGTC
CCCATGGAGGAAAACCTCCATCTACTCCTCCTGGCAGGAAGTGGGCGAGTTTCCCGTGGTG
GTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGGGGCCGGCCCTGCTGGTGCTG
GGCCAGACGCCATCCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTCTACAGCTGGCCC
TACCACTTCTGCGCAAGTTCGGCTCCGACAAGGGCGTGTTCTCTTTGAGGCCGGCCGT
CGCTGCCACTCGGGTGAGGGCCTCTTTGCCTTCAGCACCCCTGTGCCCCTGACCTGTGC
AGGGCTGTGGCCGGGGCCATCGCCCGCCAGCGGGAGCGGTGCCAGAGCTGACCAGGCC
CAGCCCTGCCCCCTGCCACGGGCCACCTCTCTGCCCTCCCTGGACACCCCCGGAGAGCTT
CGGGAGATGCCACCAGGACCTGAGCCACCCACGTCCAGGAAAATGCACCTGGCCGAGCCC
GGACCCAGAGCCTGCCGCTACTGCTAGGCCCCGAGCCCAACGATCTGGCGTCCGGGCTC
TACGCTTCAGTGTGCAAGCGTGCCAGTGGGCCCCCAGGCAATGAGCACCTCTATGAGAAC
CTGTGTGTGCTGGAGGCCAGCCCCACGCTGCACGGTGGGGAACCTGAGCCGCACGAGGGC
CCCGGCAGCCGCAGCCCCACAACAGTCCCATCTACCACAACGGCCAGGACTTGAGCTGG
CCCGGCCCGGCCAACGACAGTACCCTGGAGGCCAGTACCGGCCGGCTGCTGGAGCTGGAT
CAGGTGGAGGGCACAGGCCGCCCTGACCCCTCAGGCAGGTTTCAAGGCCAAGCTGGTGACC
CTGCTGAGTCTGTGAGCGGAGGAAGGGCCCAGCCCCCTTGTGACCGGCCCTGAACGCCCAGC
AGAGTGGTGGCCAGAGGGGAGAGGTGCTCCCCCTGGGACAGGAGGGTGGGCTGGTGGGCA
AACATTGGGCCCATGCAGACACACGCCTGTGTCCACCCTGGCCTGCAGGAACAAGGCAGG
CCGCCTGTGGAGGACCTCAGCCCTGCCCTGCCCTCCTCATGAATAGTGTGCAGACTCACA
GATAATAAAGCTCAGAGCAGCTCCCGGCAGGGGCACTCACGGC

Gene 373. >ENST00000312943 cDNA sequence

ATGGGCCCCATCTGCCAGCTGGCCTTCCCGGGACAGGGGAGGCCTCCTCAGGATCCACA
GATGCCAGTCTCCCAAGAGGGGCCTGGTCCCCATGGAGGAAAACCTCCATCTACTCCTCC
TGGCAGGAAGTGGGCGAGTTTCCCGTGGTGGTGCAGAGGACTGAGGCCGCCACCCGCTGC
CAGCTGAAGGGGCCGGCCCTGCTGGTGTGGGCCCAGACGCCATCCAGCTGAGGGAGGCC
AAGGGCACCCAGGCCCTCTACAGCTGGCCCTACCACTTCTGCGCAAGTTCGGCTCCGAC
AAGATACTTCTGGGAACCCCAGGCGTCAGTCTCCTCATCTGTAAAGGAGAGAGAACCGAT
GACGTATCAGGCATAATCCTTGATGAGAGTTTGTGCGTGCCTACTCAGTGCCAGGCGCT
GGGGGACACAGCCGTGTTCCAGGACAGCCTTGGTCCTGTTCTCCGGGAGCCGACATTCCAG
GGGGAGAGAAGTTTCTGAAGACTTCCATGCTGCGTTCCCTCCTCTGCTCCTGCTCCTGG
CGCCATCCTAGGAGCCAGCCATGCACGCAAGCGTCATGCCTCCAGGGCTCTGACTGCCCA
GCCCCCTCACCGCAACTCCACCTCAGCTGCACACACCCTTGGCACATCCTGAACCTCATTT
TCATGACGGACACACAATTTTGTCTCTCCTGTCCAAGCCTCATCCTCTGGCCGCCACC
TCCTTCCAGCTCACTTCTTTAGTGCGGCCAGTACCGCCCCCTGCCTAGGCATGTCGACCT
GCAGGGACCCTTTTCTGGCTCTTCGAGGCCTCTGCCCACCATCCCCCTCTTTGTTCTCCAT
AGTCCCTTCCCCCTGTTCTCTCTCGTTTTCATCTTACTGGTCTGGCAAAGTCCCCGGCCTT
GGGCGAGCCCAGACCTCCTCAGTGCCTGCACACAGCTGCCACAGCCAGAGAAATCCATT
TAAGCAGACTGCCTGCATCCTTCTTAACAGTGCAAGGCAGGCACTCCCTGCCACAAGAGA
CCCTGTTCCCTAGTAGGGCAGCTTTTCTCCTCCCCAGAACCTCCTGTCTATCCCCACCCA

FIGURE 1 (CONT'D)

ATGTCTCCTCACAGGCATATTGGGGAAACAGGTCTAGGCTCTCCACCGTATCTGCAAGTG
TACTGGCATCCATCTGTCTTCTTCTTACCCCTACAGTAGAAACAGTGTCTGTCCCAGCT
GTGCTCTGATCCCGGCTCCTTTTACCTCAGAGCTTGGAAAATTGAGCTGTCCCCTCTC
TCCTGCGCCCATTCATCTACCAGCAGCTTTTCCAGCCACACGCAAACATGCTCTGTAAT
TTCACATTTTAAACCTTCCCTTGACCTCACATTCTTCTCGGCCACCTCTGTTTCTCTGT
TCCTCTTACAGCAAAAACCTGTTCAAAAGAGTTGTTGATTACTTTTCACTTTCTC
ACCCCATTTCTCTCCTCAATTAACCTCTCTTCCATCCCATGATGCCATTATGTGGCTTTT
ATTAGAGTCACCAACCTTATTCTCAAAACAAAAGCAACAAGGACTTTGACTTCTCAGCA
GCACTCAGCTCTGGTTCTTGAAACACCCCGTTACTTGCTATTCTCTCTACCTCATAACA
ATCTCTTCCCAGCCTCTACTGCTGCCTTCTCTGAGTTCTTCCAGGGTCTAGGCTCAG
ATGTAGTGTAGCTCAACCCTGCTACACAAAGAATCTCTGAAAGCCTGTAAAAATGTCCA
TGCATGTTCTGTGAGTGATCTACCAAGAAAATAAAAAATTTTAAAAATC

Gene 374. >ENST00000309007 cDNA sequence

CCCTCCCCCGGCGCTGGCTCGCTCGGCTCGCGACGCTGCAGAGGCTCCGAGGCGGCGGC
GGCGACTCCCTCTTTCCCTCCCTCCTCCTCCGTCGCGCCGTCGTCGCGCTGTGTCG
TTCGGCCCCGGTCCGGCCCCGAAGCATGGCCGGCGTCAGCTTCAGCGGCCACCGCCTGGAGC
TGCTGGCGGCTTACGAGGAGGTGATCCGAGAGGAGAGCGCGGCCGACTGGGCTCTGTACA
CATATGAAGATGGCTCCGATGACCTCAAGCTTGCAGCATCAGGAGAAGGGGGCTTGCAGG
AGCTTTTCGGGACACTTTGAGAACCAGAAGGTGATGTACGGCTTCTGCAGTGTCAAGGACT
CCCAAGCTGCTCTGCCAAAATACGTGCTCATCAACTGGGTGGGCGAAGATGTGCCTGATG
CCCGCAAGTGCGCTTGTGCCAGCCACGTGGCTAAGGTGGCAGAGTTCTTCCAGGGTGTG
ACGTGATCGTGAACGCCAGCAGCGTGGAAGACATAGACGCGGGTGCCATCGGGCAGCGGC
TCTCTAACGGGCTGGCGCGACTCTCCAGCCCTGTGCTGCACCGACTGCGGCTGCGAGAGG
ATGAGAACGCAGAGCCCGTGGGCACCACTACCAGAAGACGGATGCAGCTGTGGAAATGA
AGCGGATTAACCGAGAGCAGTTCTGGGAGCAGGCCAAGAAGGAAGAAGAGCTGCGGAAGG
AGGAGGAGCGGAAGAAGGCCCTGGATGAGAGGCTCAGGTTTCGAGCAGGAGCGGATGGAGC
AGGAGCGGCAGGAGCAAGAGGAGCGCGAGCGGCGCTACCGGGAGCGGGAGCAGCAGATCG
AGGAGCACAGGAGGAAACAGCAGACTTTAGAAGCGGAAGAGGCCAAGAGGCGGTGAAGG
AGCAGTCTATCTTTGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAG
AGTCGGAGGTGGAGGAGGCAGCAGCTATTATTGCCAGCGGCCTGACAACCAAGGGAGT
TCTTCAAGCAGCAGGAAGAGTCGCATCGGCCTCTGCGGGCAGCTGTGATGTACCTCGC
CCTTCAACCATCGACCAGGCAGCCACCTGGACAGCCACCGGAGGATGGCGCCCACTCCCA
TCCCCACGCGGAGCCCGTCTGACTCCAGCACCGCCTCCACCCCTGTGCTGAGCAGATAG
AGCGGGCCCTGGATGAGGTACCTCCTCGCAGCCTCCACCACTGCCACCGCCACCCCCAC
CAGCCCAAGAGACCCAGGAGCCAGCCCCATCCTAGACAGTGAGGAGACCAGAGCAGCAG
CCCCTCAGGCCTGGGCGGCCCCATGGAGGAGCCCCCTCAGGCACAGGCGCCTCCCCGGG
GGCCAGGCAGCCCTGCAGAGGACTTGATGTTTCATGGAGTCTGCAGAGCAGGCTGTCTGG
CTGCTCCCGTGGAGCCTGCCACAGCTGACGCCACGGAGGTCCACGATGCAGCTGACACCA
TTGAAACTGACACTGCCACTGCTGACACCACTGTTGCCAACAACTACCCCCCGCCCA
CCAGCCTCATTGACCTATGGCCTGGCAACGGGGAAGGGGCCTCCACACTCCAGGGTGAGC
CCAGGGCCCCACGCCACCTCGGGTACTGAGGTCAACCTGGCAGAGGTGCCCCCTGCTGG
ATGAGGTGGCTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCTTCTCAACT
TTGATGAGCTGCCTGAGCCGCCAGCCACCTTCTGTGACCCAGAGGAAGTGAAGGGGAGC
CCCTGGCTGCCCCCAGACCCCAACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGC
AGGAGCCGGAGCCCCACCTGCTAACCAATGGCGAGACCACCCAGAAGGAGGGGACCCAGG
CCAGTGAGGGGTACTTCAGTCAATCACAGGAGGAGGAGTTTGCCCAATCGGAAGAGCTCT
GTGCCAAGGCTCCGCCTCCTGTGTTCTACAACAAGCCTCCAGAGATCGACATCACATGCT
GGGATGCAGACCCAGTTCCAGAAGAGGAGGAGGGCTTCGAGGGTGGTGATTAGCGGTGGC
GCCAGCCCTAGGCTACCTTGCCAAGGCCGCCACCTGCATCAGCCTCTGGCCAGACGGC
CCGCCGTGCCTGCATTGCGAGCAGCTCCGCCTGGCACCCACTCCGGATTCCGGCCCTGGC
TGGGGACTTGGCCGCTTCCCTACCCACAGGGCCTGACTTTTACAGCTTTTCTCTTTTTT
AAAAAGTTGATAGGAGACTTGTACAGTTGACTGGCTTTCCTCTCGTTGGTAGTTGAGACG
CTGTTGCAAATTCACCCCTCCTTCCCTGGTCCAGATTGTAGCTCTTAGTCCTCCCTGCT
CAGCTGGCCGGGTGGAGGCCTCACCTGCTTGGGGCCTGGCGTGGGGGAGCTCTGGTG

FIGURE 1 (CONT'D)

GGAAAATGTCCCCACCTCTTTTCTAGTTTTATGTTTCTTGGGAAAATATCACTTTGTA
TTCTCTGTCCAGGGCTTCAGATATTTTGCACGAATTTTAAAACATGGCAATAAATGGCTC
GTGGGCTCTGGCTCCCTGGGACCCCTCCCCGCCCTTCTTTTGACCCCTTCCTGTCTGGC
CCAAAGGAAGTAGCAGGCCAGCTGGGGCCCTCGGCTACCCCGTCTCCTGCCGGGCA
GGTCCCAGGTTGGAGGCCCTAGGCGCGGTTCAAGTCAGGGCTATGGATGGGGCCAGGGG
CTTTGGTGGCCCTCCCCAACTCCTTCCTCTTTGCTTGGGTTCTTTTTTACGTTTAGTA
ACTGTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTGGAAAGCACAACTTCTGTAACGGGT
CGTGCTCATGTCTGTTAATAAAGAAATCCAGATCC

Gene 375. >ENST00000292385 cDNA sequence

GGCGGCCGACGCGGCCCGAGGCGCGGGTCCCGATGTGGGGCCCGGGCCGCGTGGCC
CTGCGGGAGCCCATCCCCACCCTACCCCGGGCCCGGGGACAGGTGTGCACGGGGCG
GCCAAGGGCACCTTCGCCACCTTCGAGCGGGCGAGGTCCGGGCGGGGACGGGGCGGGGAC
CGAGCTAGCGGAGCCAGCGCAGCCTGCCCGGCTCAGCCCGGCCCGGCCACAGCAAAAGG
AAAGCGAGGGCGGGGAGGAGCGGAGCGGGCTGGGGCCGGGCGCCCCGCCACCGGGG
GCCTCTCGGAGTGGGCCGCCCTCCCCCGAAACCTGGGCTGGAGTGAGGTGGAAGGATGT
TTGCTGCCACATGGCGACCGGAAGTGACTCCCTTACCGCCGCGGGTCCGCGAGGAGGCA
GGGGGAAGGTGCCCATCTGGTTCTAGGCCTCCTCTCCCTGCTGGCAGATGGGAACAGGT
TCTTCTTGAGGAAACTGAGGCAAAGAGGAGGGCAGGTCTGAGGGACCCGCTTGGGCTGG
CCTCACCCGCACACTGGGAGGGCAGCCAGGTGGGGACTCTGACCTGGGGGCTTCTGGAGG
AGAGGATGAGATGGCTGGGCATCCATGGCATGGTACTGCAGCACTGGCCAGCAGCCAGGC
CTGGAGGGATGGACGCGAGAGACAAGCTCTCGTGTCTGCAGGGCTCTGTACACATATGA
AGATGGCTCCGATGACCTCAAGCTTGACGATCAGGAGAAGGGGGCTTGCAGGAGCTTTC
GGGACACTTTTGAGAACCAGAAGGTGATGTACGGCTTCTGCAGTGTCAAGGACTCCCAAGC
TGCTCTGCCAAAATACGTGCTCATCAACTGGGTGGGCGAAGATGTGCCTGATGCCCGCAA
GTGCGCTTGTGCCAGCCACGTGGCTAAGGTGGCAGAGTTCTTCCAGGGTGTGACGTGAT
CGTGAACGCCAGCAGCGTGGGAAGACATAGACGCGGGTGCCATCGGGCAGCGGCTCTCTAA
CGGGCTGGCGCGACTCTCCAGCCCTGTGCTGCACCGACTGCGGCTGCGAGAGGATGAGAA
CGCAGAGCCCGTGGGCACCACCTACCAGAAGACGGATGCAGCTGTGGAAATGAAGCGGAT
TAACCGAGAGCAGTTCTGGGAGCAGGCCAAGAAGGAAGAAGAGCTGCGGAAGGAGGAGGA
GCGGAAGAAGGCCCTGGATGAGAGGCTCAGGTTTCGAGCAGGAGCGGATGGAGCAGGAGCG
GCAGGAGCAAGAGGAGCGCGAGCGGCGCTACCGGGAGCGGGAGCAGCAGATCGAGGAGCA
CAGGAGGAAAACAGCAGACTTTAGAAGCGGAAGAGGCCAAGAGGCGGTGTAAGGAGCAGTC
TATCTTTGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAGAGTCGGA
GGTGGAGGAGGCAGCAGCTATTATTGCCAGCGGCCTGACAACCCAAGGGAGTTCTTCAA
GCAGCAGGAAAGAGTCGCATCGGCCTCTGCGGGCAGCTGTGATGTACCCTCGCCCTTCAA
CCATCGACCAGGCAGCCACCTGGACAGCCACCGGAGGATGGCGCCCACTCCCATCCCCAC
GCGGAGCCCGTCTGACTCCAGCACCGCCTCCACCCCTGTGCTGAGCAGATAGAGCGGGC
CCTGGATGAGGTCACTCCTCGCAGCCTCCACCACTGCCACCGCCACCCCCACCAGCCCA
AGAGACCCAGGAGCCAGCCCATCCTAGACAGTGAGGAGACCAGAGCAGCAGCCCTCA
GGCCTGGGCGGGCCCATGGAGGAGCCCCCTCAGGCACAGGCGCCTCCCCGGGGGCCAGG
CAGCCCTGCAGAGGACTTGATGTTTATGGAGTCTGCAGAGCAGGCTGTCTGGCTGCTCC
CGTGGAGCCTGCCACAGCTGACGCCACGGAGGTCCACGATGCAGCTGACACCATTGAAAC
TGACACTGCCACTGCTGACACCACTGTTGCCAAACAACGTACCCCCCGCCGCCACCGCCT
CATTGACCTATGGCCTGGCAACGGGGAAGGGGCTCCACACTCCAGGGTGAGCCAGGGC
CCCCACGCCACCCTCGGGTACTGAGGTACCCCTGGCAGAGGTGCCCCCTGCTGGATGAGGT
GGCTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCCTTCTCAACTTTGATGA
GCTGCCTGAGCCGCCAGCCACCTTCTGTGACCCAGAGGAAGTGGAAGGGGAGCCCTGGC
TGCCCCCAGACCCCAACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGCAGGAGCC
GGAGCCCCACCTGCTAAACCAATGGCGAGACCACCCAGAAGGAGGGGACCCAGGCCAGTGA
GGGGTACTTCAGTCAATCACAGGAGGAGGAGTTTGCCCAATCGGAAGAGCTCTGTGCCAA
GGCTCCGCCTCCTGTGTTCTACAACAAGCCTCCAGAGATCGACATCACATGCTGGGATGC
AGACCCAGTTCCAGAAGAGGAGGAGGGCTTCGAGGGTGGTGATTAGCGGTGGCGCCAGCC
CTAGGCTACCTTTGCCAAGGCCGCCACCTGCATCAGCCTCTGGCCAGACGGCCCGCGT
GCCTGCATTGCGAGCAGCTCCGCCTGGCACCCACTCCGGATTCCGGCCCTGGCTGGGGAC

FIGURE 1 (CONT'D)

TTGGCCGCTTCCCTACCCACAGGGCCTGACTTTTACAGCTTTTCTCTTTTTTAAAAAGT
TGATAGGAGACTTGTACAGTTGACTGGCTTTCTCTCGTTGGTAGTTGAGACGCTGTTGC
AAATTCCACCCCTCCTTCCCTGGTCCAGATTGTAGCTCTTAGTCCTCCCTGCTCAGCTGG
CCGGGTTGGAGGCCTCACCTGCTTGGGGCCTGGCGTGGGGGGAGCTCTGGTGGGAAAT
GTCCCCACCTCTTTTCTAGTTTTATGTTTCTTGGGAAATATCACTTTGTATTCTCTG
TCCAGGGCTTCAGATATTTTGCACGAATTTTAAAAACATGGCAATAAATGGCTCGTGGGCT
CTGGCTCCCTGGGACCCCTCCCCGCCCTTCTTTTGACCCCTTCTGTCTGGCCCAAAGG
AAGTAGCAGGCCAGCTGGGGCCCCTCGGCTACCCCCGTCTCTGCCGGGCAGGTCCCA
GGTTGGAGGCCCTAGGCGCGGTTTCAAGTCAGGGCTATGGATGGGGCCCAGGGGCTTTGGT
GGCCCCCTCCCAACTCCTTCTCTTGTCTGGGTTCTTTTTTACGTTTAGTAAGTGT
TTTTTTGTTTTTTTTTTTTTTTTTTTTTTTGGAAAGCACAACTTCTGTAACGGGTCTGTCTC
ATGTCTGTTAATAAAGAAATCCAGATCC

Gene 376. >ENST00000327525 cDNA sequence

GGCCGATCCCAACGAGGCTCCCTGGAGCCCCGACGAGAGCAGCGCCCTGGCCGGGCCAAG
CAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCT
TCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCCTCTCCATTTCCCGGCTCACTCCTG
GGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCG
AGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGC
GCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTTCAAGCAAACCGCAGAAGGCCTCCG
CCCCCGCCGCGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGG
CCCGGCCCTTTGGGGCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGC
TCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGC
GGCCGCGGCGGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCA
CCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGA
CAGAAGCCCCAGCCCCAGCCTCATCTACCCCCAGGAGCCCTGGCCTGGCCCTACCGCCC
CCAGCCCTACCAGCCGCCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCC
CGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGC
AGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACA
ACGGCAAGACTCCCGTGTGTACCAAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGG
CGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGG
AAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGC
GCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCC
TGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGA
ACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGT
TTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGG
CCCTGGGCTTCAGCTGGCATGACACCTGCTTCTGTCTGTGCGATATGTCAGATCAACCTGG
AAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTC
ATGTGTGAGCCCCCTTCTGCCACAGCTGCCCGGTTGGCCCCCTAGCCTGAGGGGCCTGGAG
TCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCC
CGAGCCTGGGGCTCCCTGGGGCCCTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCC
ACCACCACAGCACACCGATGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATA
AACCTGTACCCAGCTGTG

Gene 377. >ENST00000328562 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTTCAAGGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCCTCCGCGGCCTTTG
CACCAGCGTCTCCCTCAACAAGACGGCCCCGGCCCTTTGCCCCCGCCCGCTGACAGCGCC
CCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTG
ATGGAGAACACAGAGGACTGGCGGCCCGCGGCCGGGGCCAGTCGCGTTCTTCCGCATCC
TTGCCACCTCACAGGCACCGAGTTCAGTAATGCAAGACCCGGATGAGGAGCACCTGAAG
AAATCAAGCCAGGTGCCCAGAAGCCCCAGCCCCAGCCTCATCTACCCCCAGGAGCCCTG

FIGURE 1 (CONT'D)

GCCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCCGCTGGGCTGTGGACCCTGCGTT
TGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCACAGCCAGCCGGCCACG
CCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGA
GGGGGCAGCAACAACGGCAAGACTCCCGTGTGTCAACAGTGCCACAAGGTATCCGGGGC
CGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGT
GGGAAGGTCTCTGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCA
TGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAG
ATCATGCACGCCCTGAAGATGACCTGGCAGCTGCACTGCTTTACCTGTGCTGCCTGCAAG
ACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGAC
TATGAGAAGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGAC
CGCTTCTCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGT
CAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGC
CATGCCTTCTCTCATGTGTGAGCCCCCTTCTGCCACAGCTGCCGCGGTGGCCCTAGCCT
GAGGGGCTGGAGTCGTGGCCCTGCAITTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACC
CTGGCTCCTGGCCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCA
CCCCACTCCCTCCACCACCACAGCACACCGATGCTGGCCACACCAGCCCCCTTTACCTC
CAGTGCCACAATAAACCTGTACCCAGCTGTG

Gene 378. >ENST00000330043 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCTCTCCATTTCCCGCTCACTCCTGGGGGCAAAGCGGCGAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTTTCAGAGCAAACCGCAGAAGGTGCAGACCCCTGACAAACAGCCGCTCCGACCGCTG
GTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCG
GGGACAGGCCAGTCGCGTTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTCATG
CAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCA
GCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACC
AGCCGCCCGCCCTGGGCTGTGGACCCTGCGTTTGGCCGAGCGCTATGCCCGGACAAAACG
AGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGCAGAGCCGCACC
TCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACT
CCCGTGTGTCAACAGTGCCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCAC
GCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGGGAAGAGGGTGGC
TTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCC
AGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACC
TGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAACAGGGCCTTC
TACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAA
TGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTC
AGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACCTGGAAGGAAAGACC
TTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCC
CCTTCTGCCACAGCTGCCGCGGTGGCCCTAGCCTGAGGGGCTGGAGTCGTGGCCCTG
CATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCCTGGCTCCTGGCCCCGAGCCTGGGG
CTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCCCTCCACCACCACAGC
ACACCGATGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATAAACCTGTACCC
AGCTGTG

Gene 379. >ENST00000330641 cDNA sequence

AGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTG
GCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAAGTAGTGCTGGAGGGGCCAGC
ACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCTCTCCATTTCCCG
GCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAG
CATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGC
CTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAGCCGGTTTCAGAGCAAACCGCA
GAAGGCCTCCGCCCCCGCGCGGACCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCT
CAACAAGACGGCCCGGCCCTTTGGGGCGCCCCGCGCCGCTGACAGCGCCCCGAGCAGAA

FIGURE 1 (CONT'D)

TGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACAC
AGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTTCCTTCCGCATCCTTGCCCA
CCTCACAGGCCACCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGGGA
AAAGTATGTCTCGAGCTGCAGAGCCCACGCTACACCCGCCCTCCGGACTGGCACCAACA
GCGCTCTGCCACGTGCTCAACGTGCAGTCGTAG

Gene 380. >ENST00000331981 cDNA sequence

ATAGGATTCCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCG
CAGGCCGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGC
CTCACACACATCGAAGCTCAGAACAAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGC
CTCAGCAGGGCCCAGCCGGTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGAC
CCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCGGCCCTTTGGG
GCGCCCCCGCCGCTGCAGCGCCCCCGCAGCAGAATGGGTGCAGACCCCTGACAAACAGC
CGCTCCGACCGCTGGTCCCAGATGCCAGCAAAGCAGCGGCTGATGGAGAACACAGAGGACT
GGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAG
GCACCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCA
GGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCG
CCCCAGCCCTACCAGCCGCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATG
CCCCGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGC
TGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCA
ACAACGGCAAGACTCCCGTGTGTACCAGTGCCACAAGGTCATCCGGGGCCGCTACCTGG
TGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCC
TGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTGCCACCATGCTATGAGC
TGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACG
CCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCCTGCAAGACGCCCATCC
GGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGA
TGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGG
AGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACC
TGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCCTTCT
CTCATGTGTGAGCCCCCTTGTGCCACAGCTGCCGCGGTGGCCCTTAGCCTGAGGGGCCTG
GAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTTGGCTCCTG
GCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCC
TCCACCACCACAGCACACCGATGCTGGCCACACCAGCCCCCTTTCACCTCCAGTGCCACA
ATAAACCTGTATCCAGCTG

Gene 381. >ENST00000329540 cDNA sequence

GCGGTAGCGCGCGCGCGCGCGCGCGGTGGCGCGCGCGCGCGCGCGTGTGGAGCGCA
 GGGAGCGGCGCAGAGCGGCGGCATGACGCGGAGGCGGAGCAGGCCGAGCGGCGGTGCGGGC
 AGGCGCGAGCGGGCTCGGGCCGCGGGGCCGAGAAGCCCCAGGCGCCCCGAGCCCCCGCGC
 CCGCCAAGCCTGGAGGCGGGAGCGGGTGCAGGCCCTCCGGAGGCGCCGGCGGAGCCCGAC
 CACGACGGCCCCAGGGAGGATGACGAACCCAACCTGGTGCCCCGGCCCCGAGGTAGGAGCG
 AGCGGGGAGACTTCGGCGGCTCGGGCGCTTTCACCTTCCCCGAGCGGGAGCGGGAGTGGG
 GCGGGGTGGGGATGGGCCATCTGCCGCGGCTGGGGTAGCAGCCTTCCCCCGGGTCCGG
 CGCCGAAGCTTTCTCCCCCGGGGCGGGAATGGAGGCTGGACCCCTCTCCCCAAAGCCGAG
 GCTCGGTCCGCGCTCCTGCGACTAGGCTGAAGCTGCTCCCCCTCTCCCCGCCGCTCCGGG
 CGTTCTGGCCGTACACCCACACTGGGACTGGGACTGGGACTGGGCTGTGATCCCAGGGCC
 GCAGTCCGCTCTCGGCCCGCCACCTCCCCCGGGCCCCACCTGCTCCCTCAGCCACAGGCC
 ATCTCGGGGCTCTGGGACTGGACGACTGCAGCCTCTTCCCTCTGCCCCCGGGAACGGCTC
 CACTCCGTCCCCTGCAGCGCCTGCAGCCGCGGCCCCCTCAGCAGCTGTGTCTCTTGGCGC
 CTCTCGCCATACCCAGCAGAGCAGTTGGAGCAGACAGCCAGGCTGCCCGGAGGAGTTTT
 TGGTGGGGTTTTCTGCACTGAGGTGGAAACCCAGCAGAACCTGCCCTTCTTCCCTCCCCTG
 CTCGCAAGGCGACCCACCCCGACCTTGAGATCCAGGTTGGAGAATCCTGCTGAGAGC
 GAACAGTAGGAGGATTCCCCAAGCTTCCAGCTTGCACCTTGGAGAAGGTCACTTTCTT
 TTGAGCAAAGGAGATAACGGGAGGTACCTGCCAAAGTTCACTGAGAGGCGGGGTGACA
 TGGGCCACGGTTGCTCTGGGAGGGTTGTGGCACTCGGGGCTGGGTGGCTCTCCCTAAGC

TGCTCTGACAAAAGAGTTTTTGTAGTTGGTCTTTTTGGCTGAGCCTGCCCAGGAAGGCAGGCT
CCTGCAGGAGTCTTGGAGGGTTCGGATGCGGCGCCGGATGAGGATGAGGCGTGGCGGAAGA
TGCGTTTTGGCTCTGCAGACACTGCATCGGGCAGCAGGGGACTCTGGGAGGCTGGTGCAGC
CAGAAGGCATGGCTCTTGACAGCCTTCTAGTAGAATCTCTGGAATTGTGCATATGAAGAA
ACAGAAACTCAGAGCAACTAAACATTTGCCCAAATGACTCCAACTGTAGGTGTGCAGACAA
AAGAAAAGAAAAGGACTTTTAGGTCCCCCCCCGCTCCAGCCAGCCTGTGCAGACTTGCTG
CCTGCTGTGTACCCGGGAACGCAAAGGCTGGGAAGAAGGCCCTTCTCAAATGGACTGGT
GTTGCAGGGTGAGAAGCTGCCCCCTGACTTCATGCCAAAGCTCGTCAAGAATCTCCTAGG
CGAGATGCCCTCTGTGGGTCTGCCAGAGTTGCCGAAAGAGCATGGAGGAAGATGAAAGGCA
GACAGGTCGAGAACATGCAGTGGCGATCTCCTTGTACACACATCCTGCAAATCACAGT
TTGTGGAGATGACTCTCATTCTGTCTGTCTTCTCCTCATCATCCTCATCCTCGTCTCTC
CTCTTCTGCCCCTGGGAACTCGGGAGACTGGGATCCTAGCTCGTTCCTGTGCGGCACATAA
GCTCTCGGGCCTCTGGAATTCCCCACATTCAGTGGGGCCATGCCAGGCAGCTCTCTTGG
GAGTCTCTCTACCATCCCCGGTGAGGCTTTCCCCGTCTCGGAGCACCACCAGCACTCAGA
CCTCACTGCTCCCCCTAACAGCCCCACCGGCCACCACCCGAGCCAGCATCTCTAATCCC
GTCTCACCCAGCTCCTTTGGCTCCCCACCCACCCACACCTGCTGCCACCACCACCCCGG
AGCACCTTTCCCTGCCCAGGCTTCAGAGTGCCCTGTGTGCTGCTGCCACTGCCCCCACAC
TCCAGGGCCATGTTCAGAGCTCCCATCTACCTCCACCAGCATGCCGCTCCTGAAGATGCC
CCCACCATCTCGGGGTGCAGCCACCCCTGCAGCGGGCACTGTGGTGGGCACTGCAGTGG
GCCTCTTCTCCACCCCCGAGCTCTCAGCCACTCCCTAGCACTCACAGGGATCCCGGGTG
CAAGGGGCACAAGTTTGCACACAGTGGCCTGGCTTGCCAGCTGCCCCAGCCCTGCGAGGC
AGATGAGGGGCTGGGTGAGGAAGAGGATAGCAGCTCTGAGCGAAGCTCCTGCACCTCATC
CTCCACCCACCAGAGAGATGGGAAGTTCTGTGACTGCTGCTACTGTGAGTTCTTCGGCCA
CAATGCGGCAAAAGGAAAGGAAATGGCAGAGAGAAAAGCTATGATTTCTGATGAGTATGTAT
ACGTGTGTAATCCAGAGAAGTGAACGCTTGGGAGTGATGAAGGCAGAGTGGAAGCAAAA
AGGCTCTCAGTCCCCCAAGTGTGACAGCCAGCCGAGGGACAGGCCGTGAGCACAGACGGC
GCCAGGAAGGAGGCTCAGATCAGAGGGCATGCTGGCTCTGGCCAGGGGGAGGAAGCAGTG
CAGAAGTCTCATAAGCCACCCGCTGCCCCGACGAGTCGGAACCTATACCGAGATCCGGGAG
AAGTCTCGCTCGAGGCTGACCAGGCGGAAAGAGGAGCTGCCCATGAAGGGGGGCACCCCTG
GGCGGGATCCCTGGGGAGCCCGCCGTGGACCACCGAGATGTGGATGAGCTGCTGGAATTC
ATCAACAGCACGGAGCCCAAAGTCCCCAACAGCGCCAGGGCCGCCAAGCGGGCCCGGCAC
AAGCTGAAAAAGAAGGAAAAGGAGAAGGCCAGTTGGCAGCAGAAGCTCTAAAGCAGGCA
AATCGTGTCTTCTGGAAGCCGGGAGCCAAGGCCTGCCAGGGAGAGGGCTCTTGGAGTGGCCC
GACCGGAACTGGATCGGGTCAACAGCTTCTGAGCAGCCGTCTGCAGGAGATCAAAAAC
ACTGTCAAAGACTCCATCCGTGCCAGCTTCAGTGTGTGTGAGCTCAGCATGGACAGCAAT
GGCTTCTCTAAGGAGGGGGCTGCTGAGCCTGAGCCTCAGAGTCTACCCCCCTCAAACCTC
AGTGGCTCCTCAGAGCAGCAGCCTGACATCAACCTTGACCTGTCCCCCTTTGACTTTGGGC
TCCCCCTCAGAACCACACGTTACAAGCTCCAGGCGAGCCAGCCCCACCATGGGCAGAAATG
AGAGGCCCCCACCACCATGGACAGAGGTGAGGGGGCCCCCTCCCGGTATCGTCCCCGAG
AACGGGCTCGTGAGGAGACTCAACACCGTGCCCAACCTATCCCGGTGATCTGGGTCAAG
ACAGCCAAGCCGGCTACCCAGCTCCGAGGAGCCAAGCTCAAAGGAAGTTCCAGTTGC
AAGCAGGAGCTGGCTGAGCCTGTGTCTCAGGTGGGAAGCCACAGAAGGGCAAGAGGCAG
GGCAGTCAGGCCAAGAAGAGCGAGGCAAGCCAGCCCCCGGCCCCAGCCAGCCTAGAG
GTTCCAGTGCCAAAGGGCCAGGTGCTGAGCCTGAGCCCAAGCAGCCAGGCAGGTCCTAGAGCTT
CCCAAAGTAGGCAGCTGTGCTGAGGCTGGAGAGGGGAGCCGGGGAGCCGGCCAGGACCA
GGTTGGGCTGGCAGTCCAAAACCTGAGAAGGAGAAGGGCAGTCTCTGGCGAAACTGGCCA
GGCGAGGCCAAGGCACGGCCTCAGGAGCAGGAGTCTGTGCAGCCCTCAGGCCCAGCAAGG
CCACAGAGCTTGCCCCAGGGCAAGGGCCGCGAGCCGCAACAAGCAGGAGAAG
CCAGCCTCCTCCTTGGACGATGTGTTCCTGCCCAAGGACATGGACGGGTGGAGATGGAT
GAGACTGACCGAGAGGTGGAGTACTTTAAGAGTTCTGTTTGGATTCTGCAAAGCAGACT
CGTCAGAAAGTTGCTGTGAACTGGACCAACTTCAGCTTCAGGAAAACCACTCCTAGCACA
GCTCAGTGAGGCCCTGCCCAGGCTGAGCTGCTTCAGGGCGTCTGAGGCCCTGACTGCCA
GCTGAAGGCGTATAATTTTTTCCCTCCGTGTGCCCCACCTACCCGTCCAAGACCTCTGTG
CTCCCCACCATCCTGGACCAACCAAAAGCTGAACGGATGCCACACTGTGCTGGGGCCCCC

FIGURE 1 (CONT'D)

TGACCTCAGCAGAGCCGCTTCTCTGGTGCTACGCAGCCTCCACACTCAGAGCCCGTGGACT
GGGCTGGCCTAAGGGCCAGGGCTGATGGTACTGCTGGCCCAACACTGCTCTCTTTGTGTT
TGGTTTTTTTTGTTTTTGTATTTTGTATTTTCCAATTCTTTACTTTTGATACTGTG
AAGATCTTTCGTGCCGAAAGATAAAGCAACATTTGGACACAG

Gene 382. >ENST00000330503 cDNA sequence

CAGCGGGCTCGCACCAGCAGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGCGGAAGATGAG
GACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAG
AAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGT
GAACCCCGGGGAGATGAGGACGACATCCCGCTAGGCCCTCAGTCCAACGTGAGCCTCCTG
GATCAGCACCAGCACCCTTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAAGGAGAAG
CAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTGTCGAGGGCCGAGCATTGATGTCA
GTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAAACAGCTGGACTCCA
CCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCAC
ATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTT
CCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCACCCAACACCCATTACAG
ATCCAGGGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGCTTTCACGGGT
TCAGGCAAGACACTGGTGTTCACGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAG
AGGTTACCCCTTCTCAAAGCGCAGGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAG
CTGGCCCGGCAGACCCATGGCATCCTGGAGTACTACTGCCCGCTGCTGCAGGAGGACAGC
TCACCACTCCTGCGCTGCGCCCTCTGCATTGGGGGCATGTCCGTGAAAGAGCAGATGGAG
ACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCATGGATTTGCTG
CAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGC
ATGATCGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAG
CGACAGACCCTGCTCTTCAGTGCCACCATGCCGAAGAAGATTGAGAACTTTGCTAAGAGT
GCCCTTGTAAGCCTGTGACCATCAATGTGGGGCGCGCTGGGGCTGCCAGCCTGGATGTC
ATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCTCGAGTGCCTG
CAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATC
CACGAGTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAG
GAGGAACGGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCC
ACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTATCAATTATGAC
ATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCGCTCGGGAAAC
ACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTC
AAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCCCGTGCTGCAGGTGCTGCATTGC
GGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTG
GGTCATCGGATCACTGACTGCCCCAAACTCGAGGCTATGCAGACCAAGCAGGTGAGCAAC
ATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGACAGTCTTCCC
TTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCC
TGGACAGAATCAGCATTTTCAATTGAGTGGCCTGGAATGGGCCAGGCTGGTCTGGCTGC
CTGTTCCCTGTGCTCTTCAGAATTACTGTTTTTGTTCCTTTTACCCAGCTGCCATTAA
AGCCCAAACCTCTAGCCC

Gene 383. >ENST00000329365 cDNA sequence

ATGGGAAGATGGGTGAACCAGTCCTACACAGATGGCTTCTTCCTCTTGGGCATCTTTTCC
CACAGCCAGACTGACCTTGTCTCTTCTCTGCACTTATGGTGGTCTTCACAGTGGCCCTC
TGTGGGAATGTCCTCCTCATCTTCCTCATCTACCTGGACGCTGGACTTCACACCCCATG
TACTTCTTCCTCAGCCAGCTCTCCCTCATGGACCTCATGTTGGTCTGTAACATTGTGCCA
AAGATGGCAGCCAACCTTCTGTCTGGCAGGAAGTCCATCTCCTTTGTGGGCTGTGGCATA
CAAATTGGCTTTTTTGTCTCTCTTGTGGGATCTGAGGGGCTCTTGTCTGGGACTCATGGCT
TATGACCGCTACGTGGCCGTTAGCCACCCACTTCACTATCCCATCCTCATGAATCAGAGG
GTCTGTCTCAGATTACTGGGAGCTCCTGGGCCTTTGGGATAATAGATGGAGTGATTAG
ATGGTGGCAGCCATGGGCTTACCTTACTGTGGCTCAAGGAGCGTGGATCACTTTTCTGT
GAGGTACAAGCTTTATTGAAGCTGGCCTGTGCAGACACTTCCCTTTTGGACACCCTCCTC
TTTGCTTGCTGTGTCTTCATGCTTCTCCTTCCCTTCTCCATCATCATGGCCTCCTATGCT
TGCATCAGGGGCTGTGCTCCGAATACGCTCTGCTCAGGCCTGGAAAAAGCCCTGGCCAC
CTGCTCCTCCACCTAACAGCTGTACCCCTCTTCTATGGGGCAGCCATGTTTATGTACCT

FIGURE 1 (CONT'D)

GAGGCCTAG

Gene 384. >ENST00000328095 cDNA sequence

GCCGGGCAGCAGCGCAGGGGCAGCTCGTCCCGTCGCACCGCGTCGCGCAGCCTGTCCAC
GCCGACCTCAGCACCAGGGCCGACGAGAGCTCGGCGGAGAAGCGGCTCGCGCTGTGCGAG
ATCTGCGAGTGGATGGTCAAGAGCGTGCCCTGCTCCAGGGCGACAGCAACAGCTCGGCG
GGCTGCAGGAATTCACCTTCGTCACTTCTGTCCCTACACAGCAAGCTGACTCGCGCGCAG
AATGAAGGAAGTGGAAAAAGTGCTCGGTGGACGCTGGATCCAGAGGGCGGCAAGGGTGGG
AGATCTCTTAGGACAAGAGCTGCATCCATGGACAGCAGCAGCAAATGCGCTCGGAGCCTA
AGTCAAGCTGCCACGAAAAAGCACTGCAGTCTAGCCAGGGGGGTGCCGGGGACAGCCCT
GGACCCAGTTTTCCAGATGGCCTGCAAGCCCTGGCTCTCACAGCAATGATGACTTTAAT
AGCTGGAGTGCATTTTCGCCCTGGAACTAGCTCAAATGCTAGTACTGTTACTGGGAGACTT
TCACCCATTATAGTCAAAGGAGACTATCTTGGAGATGGGGACGCACATTCTGTGGGGTAC
CCGCCATCTGCGGCAAAGATGCCCCCTACTACCCAGTCTGAGACAAGCAATCCTAACGTG
GAAAGCTTTCTGAGTGATCTCAGTCTTATCTCCTCACCAACATCATTAACTGTGTCCACC
CAGTCTCACCTGGCACCATGATGCAGCAGACGCCATACTCCTTTGTGCCACCAAACACC
AGTCTGAATTCGCCCAGCCAACTGCAAAAAACAGACGTGGCCAGTCCAACATGAGCCCT
TTGCCCCAGATGCAACACTCCAGGAGCACAAATCAAGTTACGGAGCTGTGAGTCCGTGT
AACTGTGTAGCGGGACTCCTGGAGGAGATGCTGACTTCTGACTCTCCTCCCATAATGAC
ATTATGACACCAGCTGATCCTGGAGTAGCCCAATCCAACAGTCGGTTTTCTGGGCCAGAAT
ACCATGATGGGCCTTAATTCAGCCATGTCAACCTATGGCAGCCAGGCATCTGGATACAAA
ATGAGGCATCCCAGCTCCCATATCCACCCTGGGCATGCTCAGCAGACATATGCAGCTTAC
GGCCGTGCCCTGTCTCACACGGAAAAACCAAGCCCCACACCTCAGGTGTGAACCAACTG
ACCCAGTGAAGACACCTTTGCAAGTGCCTCTGCCCCACCCCATGCAGATGAGTGCCCTG
GGGGGCTACTCCTCGGTGAGCAGCTGCAGTGGTTATGGCAGAATGGACCTTCTCCACCAG
GAGAGGCTTCCAAGTGACTTGGACGGCATGCTCACTGAGCCCTTGGACTGTGACATGGAA
ATCTTCATTTGGAATGACCTCATGGATGGAGACACGCTGGATTTTTTCAGGCAATGTTTTG
CCCAGCCAAAGCTCCTCACACAGTGTCAAGACAAGGACACATAGCTGCGTGTGAGGCTGA

Gene 385. >ENST00000328767 cDNA sequence

ATGCTGTGCAAAGAGAAAGGGATCACCGTGCTGGGTTGGAACGTGGTGTGTTGACATCTTG
GTGAGAGGCAAATTCATGTTCTGGAAATTGTCCAGAAGGTACCACATAAGGACAAGTCA
AGAGAATCTTGGCATGCTCAGGAACCGGGACTCCTCTTCAGAATGACCCTGCTCGCCTCC
GGAGGGGCTGGGATGCTCTCCGTGCGCTGGAGGATCATAGGCCCGGGCCCGCCGGCCTTC
ACCGAGGAGGACAACCTGGGCCTCCTTTGCTGACCGCGTGCTGGCGAGGGCCATAAACGAC
AATTACTCCTATTTCATTGAATGCCTGGCTGCTGCTGCTGCGTCCCTGGTGGCTGTGTTTT
GATTGGTCAGTGGGCTGCAGCCCCCTCATGAAGTCCCTCAGCGACTGGAGGGTAACTGCA
TTTGCAGCGCTCTGGTTCCGCCCAGTTGGCCTCATACGCCAAGCCCTGTGCTCTGCAGAC
GGCCACCAGAGAAGGATCCTTACTCTGCGCCTGGGATTGCTCGTTATCCCGTTTTCTCCCC
GCAAGTAACCTGTTCTTCCGAGCGGGCTTCGTGGTCCCAGCGTGGGGTGTGTGTGATG
CTGCTTTTTTGGATTTCGGAGCCTGCAACACACCGAGAAAAAGAAGCTCATCGCTGCCGTG
GTGCTGGGAATCCTACTCGATGCTGAGAGGCTGAGATGCGCGGTGCGCGGCGGCGAGTGG
CGGAGCGAGGCGGTTTTTCAGAGGCGCTGTGTCTGTGTGTCCCCTCAGTGTGAGGTTTCGC
TGCAACATCGGCAGAAACCTGGCTGCTAAAGGCAACCAGACGGGCGCCATCAGATACCAC
CGGGAAGCTGTAAGCTTAAATCCCAAGTATGTTTCATGCCGTGAATAATCTTGCAAATGTC
TTAAAAGAAAGGAATGAGCTACAGGAAGCTGAGGAGCTGCTGTCTTTGGCTGTTCAAATG
CAGCCAGACTTTGCTGCTGCGTGGATGAGTCTAGGCATAGCGCGGAGCAGCCTGAAACGC
TTTGAAACCGCCAAGCAAAGTTACCCGACGGCGAGTAAAGAAGGAAATACCCAGACCGT
TACTACAGCCTCCGGCGTCTGCTG

Gene 386. >ENST00000328275 cDNA sequence

ATGGAGACGTGGGTGAACCAAGTCCACACAGATGGCTTCTTCCTCTTAGGCATCTTCTCC
CACAGTACTGCTGACCTTGTCTCTTCTCCGTGGTTATGGCGGTCTTCACAGTGGCCCTC
TGTGGGAATGTCCTCCTCATCTTCTCATCTACATGGACCCTCACCTTCACACCCCCATG
TACTTCTTCTCAGCCAGCTCTCCCTCATGGACCTCATGTTGGTCTGTACCAATGTGCCA
AAGATGGCAGCCAACTTCTGTCTGGCAGGAAGTCCATCTCCTTTGTGGGCTGTGGCATA
CAAATTGGCCTCTTTGTCTGTCTTGTGGGATCTGAGGGGCTCTTGCTGGGACTCATGGCT

FIGURE 1 (CONT'D)

TATGACCGCTATGTGGCCATTAGCCACCCACTTCACTATCCCATCCTCATGAATCAGAGG
GTCTGTCTCCAGATTACTGGGAGCTCCTGGGCCTTTGGGATAATCGATGGCTTGATCCAG
ATGGTGGTAGTAATGAATTTCCCTACTGTGGCTTGAGGAAGGTGAACCATTTCTTCTGT
GAGATGCTATCCTTGTTGAAGCTGGCCTGTGTAGACACATCCCTGTTTGAGAAGGTGATA
TTTGCTTGCTGTGTCTTCATGCTTCTCTTCCCATTCTCCATCATCGTGGCCTCCTATGCT
CACATTCTAGGGACTGTGCTGCAAATGCACTCTGCTCAGGCCTGGAAAAGGCCCTGGCC
ACCTGCTCCTCCACCTGACAGCTGTCAACCTCTTCTATGGGGCAGCCATGTTTCATCTAC
CTGAGGCCTAGGCACTACCGGGCCCCAGCCATGACAAGGTGGCCTCTATCTTCTACACG
GTCCTTACTCCCATGCTCAACCCCTCATTTACAGCTTGAGGAACAGGGAGGTGATGGGG
GCACTGAGGAAGGGGCTGGACCGCTGCAGGATCGGCAGCCAGCACTGA

Gene 387. >ENST00000297416 cDNA sequence

ACAGGGAAAAAGCAACAAGAAGGAAGAGCAATGGCGACACTGGATCGCAAAGTGCCAGT
CCGGAGGCGTTTCTGGGCAAACCTGGTCCTCCTGGATCGACGCCGCAAATTACACTGC
TCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGAAAAGCAGGGAGGTTATG
AGGCTTAATAAAGAAGATATGCACTTATTTGGCCATTACCCAGCACATGACGACTTCTAT
CTCGTAGTGTGCAGTGCCTGTAACCAGGTGCTCAAGCCACAGGTTTTCCAGTCGCACTGC
GAGAGAAGACACGGTTCAATGTGTAGACCTTCTCCCTCTCCAGTGTCTCCAGCCTCCAAT
CCCAGGACATCACTAGTACAGGTGAAAACAAAAGCCTGTCTCAGCGGCCATCACTCTGCC
AGCAGCACCTCAAAGCCATTCAAAACGCCCAAAGACAATCTACTTACCTCCAGCAGCAAA
CAGCACACAGTCTTTCCTGCGAAAGGATCAAGGGATAAACCATGTGTTCCAGTTCCTGTA
GTCAGTTTATAGAGAAATTCCTAACCTAGTGAAGGCAGATGGTGCCAATGTCAAATGAAC
TCCACAACCACTACTGCAGTTTCTGCCTCCTCCACCTCGTCCTCTGCCGTCTCCACCCCT
CCTTTAATTAAGCCTGTCTGATGTCCAAGTCAGTGCCACCTTACCAGAGAAGATCTTA
AATGGCAAAGGAATTCTGCCAACCCACCATAGACAAGAAACACCAAAATGGCACCAAAAAC
AGCAACAAGCCTTACAGGAGACTTTCAGAGAGAGAATTTGACCCAAATAAACACTGTGGA
GTATTGGATCCCAGACAAAGAAACCTTGCACAAGATCCCTCACCTGCAAGACACATTG
CTAAGCCATCGGAGGGCAGTCCCAGGCCGGAAAAAGCAATTTGACCTCCTCCTGGCAGAA
CACAAAGCAAAGTCCCAGGAAAAAGGAAGTTAAAGATAAAGAGCATCTCCTGACTTCCACG
AGGGAAATACTTCCAAGCCAATCCGGGCCGGCACAGGATTCTCTGCTAGGGTCTTCAGGG
AGCTCTGGGCCAGAACCAAAAGTTGCATCCCTGCAAAATCCAGACCACCAACTCTGTA
CTTCTAGACCATCATCTGCAAATAGCATAAGCAGCAGCACATCTTCAAATCATAGCGGC
CACACTCCAGAGCCCCCACTCCACCGGTTGGAGGTGACCTCGCCAGCCGACTGTCCAGT
GATGAAGGGGAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTGAGTTCTCCACG
CACCACCCAGACCTCTGGCGTTTTTGCTCATTTGGGAGTGCCTCATGGGACGAGGGTAC
TATGTGTTTGATAGAAGATGGGATCGTTTTTCGATTGCACTAAACTCCATGGTAGAAAAA
CACCTGAATTCACAGATGTGGAAGAAGATCCCTCCTGCGGCAGATAGCCCCCTGCCCTCG
CCAGCAGCCACATCACCACCCCGGTTCCAGCATCCGTTTTGCGAGCCTTTCAGCAACCCC
AGTGCTGTGTATCTTCTTCAGCTCCCATCAGCTCGAGGCTCACCTCTTCTTACATAATG
ACATCAGCCATGCTCTCAAACGCAGCTTTCGTGACATCGCCGGACCCGAGCGCCCTCATG
TCCCACACCACAGCTTTCCTCATGTGGCCGCAACCTCAGCATCATGGACTCAACCTTC
AAGGCCCCATCCGCCGTGTCCCGGATACCAGCCGTATCCCTTCCCCATCCCACAAGCCA
TCCAAAACCAAACAGCAAATCCTCAAAAGTCAAAGACCTGTCCACCCGTAGCGACGAG
TCTCAAAGTAACAAAAAAGGAAGCCACAGTCTTCGACTTCCTCCTCCTCCTCCTCCTCC
TCCTCTTCTTGCAGACATCCCTCTCGTCTCCACTGTGAGGCCTCACAAAAGAACTGT
GTTTTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGCCCTCCCTATAACAGCCTG
TCTGTGCACAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAACTGGAGCCCTCAGGA
CGGACCTCGCTGCCCCGGCGGCCCGCGGACATAGTGAGACAGGTGGGCGCGGTGGGAGGC
AGCAGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGACCTCTCT
CTGGCCTCACACAATGCTGTGTCTTCTCTGCCCTCTCTTTTGACAAATCAGAAGGAAAA
AAGCGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAAATCACTAAAATGCCTGGTATG
AATAGCGTTTCAAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCGATCCCGTTAAC
AGCACCTCCTCTCGGCAGGTTGGGAAAAATAGCAGCCTAGCTTTGTCACAATCCAGTCCT
TCAAGTATATCCAGCCCAGGACACAGCCGACAGAAGAACAAAAACAGAACGGGCAGGATA
AGGACTCTTCCATAA

FIGURE 1 (CONT'D)

Gene 388. >ENST00000275664 cDNA sequence

```
CCATCATCTGCAAATAGCATAAGCAGCAGCACATCTTCAAATCATAGCGGCCACACTCCA
GAGCCCCCACTCCCACCGGTTGGAGGTGACCTCGCCAGCCGACTGTCCAGTGATGAAGGG
GAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTCAGTTCTCCACGCACCAACCCC
AGACCTCTGGCGTTTTTGGCTCATTTGGGAGTCGCCTCATGGGACGAGGGTACTATGTGTTT
GATAGAAGATGGGATCGTTTTTCGATTGCGACTAAACTCCATGGTAGAAAAACACCTGAAT
TCACAGATGTGGAAGCACAGAAACCCGAGCCACAGGGCATCAGGTCCCTCCCCCTGTTC
AGGACTTGCCCTAACCAATCTGCTGTCACTGAGCAACATTGGGGCTGCCTGGGTGTCAACT
CTGGAGAGCGTAGCACCCCGCTACCTCTCAACCTCGCTGCCCAAACCCAGGCCCCGGC
GGGCCCCGAACCTGGAGGGATGGCAGCCGATGGGGGCGTGGAAGACATTAGGAAGAAAAGG
AACGGCCAAGACTCTTTTTTCTTTAACAAGCATTTAACTCTGCATCAGGAGCCGCCAACA
CAGTATTCTCTTTTCAGCCAGGAAGATCCCTCCTGCGGCAGATAGCCCCCTGCCCTCGCCA
GCAGCCCATCATCACACCCCCGTTCCAGCATCCGTTTTGTCAGCCTTTTCAGCAACCCAGT
GCTGTGTATCTTCTTCAGCTCCCATCAGCTCGAGGCTCACCTCTTCTTACATAATGACA
TCAGCCATGCTCTCAAACGCAGCTTTTCGTGACATCGCCGGACCCGAGCGCCCTCATGTCC
CACACCACAGCTTTCCCTCATGTGGCCGCAACCTCAGCATCATGGACTCAACCTTCAAG
GCCCCATCCGCCGTGTCCCCGATACCAGCCGTCATCCCTTCCCCATCCACAAGCCATCC
AAAACCAAAACCAGCAAATCCTCAAAGTCAAAGACCTGTCCACCCGTAGCGACGAGTCT
CCAAGTAACAAAAAAGGAAGCCACAGTCTTCGACTTCCTCCTCCTCCTCCTCCTCCTCC
TCTTCCTTGTCAGACATCCCTCTCGTCTCCACTGTTCAGGGCCTCAGAAAAGAACTGTGTT
TTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGCCCTCCCTATAACAGCCTGTCT
GTGCACAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAACTGGAGCCCTCAGGACGG
ACCTCGCTGCCCGGCGGCCCGCGGACATAGTGAGACAGGTGGGCGCGGTGGGAGGCAGC
AGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGACCTCTCTCTG
GCCTCACACAATGCTGTGTCTTCTCTGCCCTCTCTTTTGACAAATCAGAAGGAAAAAAG
CGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAAATCACTAAAATGCCTGGTATGAAT
AGCGTTTCAAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCGATCCCGTTAACAGC
ACCTCCTCTCGGCAGGTAAGGGACCTCCTGGCACCGCCTTACCAGGCTCTGGGGGGCAGG
GGGAGCTGGGCAGCGCCCCCTGCTTAGCCGGGCGGCTCCGACAGGTAACACAAGCTTGATT
CCTGTTCTCGTTTTTCCCCGAAGGCAGTTTTTCAACCTCTGCTTTGAGAGCACTTTACTGAA
CAAGTACTTGATACCACGCTCACTATGTGCTAGACACTGTTCTCGGCACCTTTACGGTTAT
TACCTCACTGAGTCCTCACGACACCCAGTGTCAGTGAGTGAGTTATCACTTTACAGATG
AGTAAACTGAGGCACAGAGAGATTCTGAGTTCCCCACTCCACATCGGTTCAGTTTTATCTT
TTGAGGTTCTGAGAACATTGTCAATTAAGAGTTCTGTTGCT
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Gene 389. >ENST00000318724 cDNA sequence

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ACTCAATGTCCGAACGTTCCGAAGATGACGTCCGAGCGTTCTCGAATCCCGTGTCTCTCG
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GATCGCAAAGTGCCAGTCCGGAGGCGTTTTCTGGGCAAACCTGGTCCTCCTGGATCGAC
GCCGCCAAATTACACTGCTCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGA
AAAAGCAGGGAGGTTATGAGGCTTAATAAAGAAGATATGCACTTATTTGGCCATTACCCA
GCACATGACGACTTCTATCTCGTAGTGTGCAGTGCCTGTAACCAGGTCGTCAAGCCACAG
GTTTTCCAGTCGCACTGCGGGAGAAAGCAAGACAACAGGAGAAATGAAGGCATCTCCAGG
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AAGAGACGTACAACTTCTGAAAGATCTCAGAGGACTGGCATTGTCTGGAGACGGCTTCCT
GGAAGAGGAGACTCCAGCAGAGCCCTGAAGTGTGGACAAGCTTCCATTCACTGCAAATTC
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CCCACCTGGACAACCTGCAAAAGCCTTCCAGCTGTTTCTGCTTCCACTCTTGCTCCTCTAC
AATTCACTCTGCACGCAGAAGTCAGAATCAAAATCAAAGTTCATCATGTCACTTCTTGA
CTTGTGGCTTCCCTTTGCTCTTAAGCTAAAAGTAAAAATCATTATCATGGCTACAAAGTC
TTGTGTGGTCTGGGCCACATCCTGTGCCAGGCTCCCTTTCATTGTCTATATTCCAGTCAA
GCTGGCCTTCAAAATTTTCAGCACATTGGGTCTTTCTGCCACAGGCCCTTGACATACATG
CTTTTCCCTCTGTACATGTGATTTTCTTTCATCCCCGCTTTCAAAGCTAACTCTGACTC
ATCCTTCAGACTGCATCTTAATGATTACTTCTTCTGGAAGACTCCCCTAATTTTCACAA
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FIGURE 1 (CONT'D)

CTAGATGAGCTCTCCCTTATATGTTGAAAAAAGTATTTCTTGTGTGAACAGAAATGTTT
AATGTCTGCCTTCCCAACTCAGCCACAAGCTCTGTGAGGATGGGGACTCAGTCTTTGCAT
CCCTCAGAGCCTAACATAGTCTCAGTTAATACGTGATAGCTGGAGCGTGACATTTCATT
GGAACAGTGAGGCTAGTTGAGAAATTATACCTCACCAGTATATAGGAGAGTACCATTAGG
AATTCTTAATGGGATGAAAACCTGAATTCATGTCTAGACCCTGCCACCTGCTGGCTGTGC
TGTTTTAAATAAATTGCAGATCCTCTC

Gene 390. >ENST00000311117 cDNA sequence

CGCCGCCATTTTCCAGAGCGAGAGGCAGTGACACTGAGCGGGCGCAGGGGGCCGAGTCG
GAGACCGTGCCGGAGTTTCGGGAGCGGCAACAGAGTGGGCATAGACACTCCGAGCAGCCTC
GCCGTCGTCTCTGCGTTCTGTGTTGACTGCCTGGCTGCCCCCTCCCCTACTCCTCGGTTCC
TGGTGAAGAGGCTGCGCGCTGCTGTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTC
CGCAGTGGCTGCTGTGCGGGGGTGCCTGTTTCGCGGAGGTGCGGAGAGACTCCTTGGGGG
TCGAGCACATAACGGGGTTTCGGGTGTCTCGTGTGTGAACATCACAGGTCTATTCTGGATA
AGCAGGTTTTGTGAAGACATTTATTCTTTCTTGGACCTCAGATTTACCAGACATCTCATG
GGTTTGTGGATGCACCTTAGATGTTTGCAATGAGCACTGTGGCTGGCATGCCCCAGTGTTT
TGGATACCAATGCATAGGACTCCATAGTAATCGAATTTACCAGAGGCGAACGTCATGAGC
ATAGTGATCCCATTTGGGGGTTGATACAGCAGAGACGTCATACTTGGAAATGGCTGCAGGT
TCAGAACCAGAATCCGTAGAAGCTAGCCCTGTGGTAGTTGAGAAATCCAACAGTTATCCC
CACCAGTTATATACCAGCAGCTCACATCATTACACAGTTACATTGGTTTTGCCCTATGCG
GACCATAATTATGGTGCTCGTCCTCCTCCGACACCTCCGGCTTCCCCTCCTCCATCAGTC
CTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCCTAATTTTGTATGAAACTTCCAGT
GCTACTACAATCAGCACATCTGAGGATGGAAGTTATGGTACTGATGTAACCAGGTGCATA
TGTGGTTTTACACATGATGATGGATACATGATCTGTTGTGACAAATGCAGCGTTTGGCAA
CATATTGACTGCATGGGGATTGATAGGCAGCATATTCCTGATACATATCTATGTGAACGT
TGTGAGCCTAGGAATTTGGATAAAGAGAGGGCAGTGCTACTACAACGCCGGAAGGGAA
AATATGTCAGATGGTGATACCAGTGCAACTGAGAGTGGTGATGAGGTTCTGTGGAATTA
TATACTGCATTTTCAGCATACTCCAACATCAATTACTTTAACTGCTTCAAGAGTTTCCAAA
GTTAATGATAAAGAAGGAAAAAAGCGGGGAGAAAGAACACACATTTCAAATGTAAA
AAGGCATTTTCGTGAAGGATCTAGGAAGTCATCAAGAGTTAAGGGTTTCAGCTCCAGAGATT
GATCCTTCATCTGATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATGGATGGAT
CGATATGAAGAAGCAAATAACAACAGTACAGTGAGGGTGTTTCAGAGGGAGGCACAAAGA
ATAGCTCTGAGATTAGGCAATGGAAATGACAAAAAGAGATGAATAAATCCGATTTGAAT
ACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAGAAAATT
CTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGGGAAGTTT
ATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTTTAAAGACCATACCCTTTTGTG
TTATTCTACTCTAAATTTTCATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTTGGGAAT
GAGGCTCGATTTCATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGAAATTCAA
GATGGAACCATACATCTTTATATTTATTCTATACACAGTATTCCAAAGGGAAGTAAATT
ACTATTGCCTTTGATTTTGAATATGGAATTTGTAAGTACAAGGTGGACTGTGCATGCCTC
AAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAAAATATCAAT
AGTGGTTATGAGACCAGACGGAAAAAAGGAAAAAAGACAAAGATATTTCAAAGAAAAA
GATACACAAAATCAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAAATGAAGAGC
CCAGAAACTAAACAAAGAAAGCTTTCTCACTGAGACTATCAGTATCAAATAATCAGGAA
CCAGATTTTATTGATGATATAGAAGAAAAAATCCTATTAGTAATGAAGTAGAAATGGAA
TCAGAGGAGCAGATTGCAGAAAGGAAAGGAAGATGACAAGAGAAGAAAGAAAAATGGAA
GCAATTTTGAAGCTTTTGCCAGACTTGAAAAGAGAGAGAAAGAAAGAAACAAGCTTTG
GAAAGGATCAGCACAGCCAAAACCTGAAGTTAAAACCTGAATGTAAAGATACACAGATTGTC
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GCCAAAGTAAATAGAACTAAACAGAGAAAAAGTTTTTCTCGGAGTAGGACTCACATTGGA
CAGCAGCGTCGGAGACACAGAACTGTGAGCATGTGTTTCAGATATCCAGCCATCTTCTCCT
GATATAGAAGTTACTTCACAACAAAATGATATTGAAAATACTGTACTTACAATAGAACCA
GAAACTGAACTGCACTAGCAGAAATAATTACTGAACTGAAGTTCCAGCACTTAATAAA
TGTCCTACCAAGTACCCCAAAACAAAGAAGCACTTGGTTAATGAATGGTTAAGTGAGAAG
AATGAGAAGACAGGAAAACCTTCAGATGGCCTTTTCAGAAAGGCCTCTACGCATAACTACA

FIGURE 1 (CONT'D)

GATCCTGAAGTGTTAGCTACACAACTCAATTCTTTACCAGGTCTCACTTACAGCCCCCAT
GTATACTCCACTCCTAAGCATTATATTAGATTTACTTCACCATTCTTTTCAGAAAAAAGG
AGAAGAAAAGAACCTACTGAAAAATTTCTGGTTCATGCAAGAAGCGATGGTTGAAACAA
GCTCTGGAAGAAGAAAATTGAGCAATTTTACATAGATTTAATTCAACCTGTCAAGAAAGA
TCCAGAAGTCCTGCAGTCAATGGTGAAAAATAAAAGTCCACTACTATTAAATGACAGCTGT
TCCCTTTCAGATTTAACTACACCACTAAAAAAGCAAGATTTTATCAGTTGCTAGATTG
GTTTACTCAGAAACCTCCACACCTACTCCTTCCCCGTATGCTACACCAACTCACACCGAT
ATTACTCCTATGGACCCATCTTTTGCCACGCCTCCACGGATAAAATCAGATGATGAAACT
TGTAGAAATGGTTATAAACCCATATATTCAACAGTTACCCAGTAACTCCTGGTACACCA
GGAAATACCATGCACCTTTGAGAATATTTCTTCCCAGAAAGTTCTCCAGAAATAAAGAGA
CGCACTTATAGTCAAGAGGGATATGACAGATCTTCAACCATGTTAACATTGGGGCCTTTT
AGAAATTCTAATTTAACTGAACTGGGTCTGCAAGAAATAAAGACTATTGGTTATACGAGC
CCTAGGAGTAGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAACCTGTGTGAGAC
CTTCAGCTAGGACTCGATGCAGTTGAGCCAACTGCCCTACATAAAACCTGGAAACGCCT
GCACATGACAGGGCTGAGCCCAACAGCCAACTGGACTCGACTCACTCTGGACGGGGCACA
ATGTATTCTTCTGGGTAAAGAGCCCTGACAGAACAGGAGTTAACTTCTCAGTGAACCTCC
AACTTGAGGGACCTGACACCCCTCGCATCAGTTGGAGGTTGGAGGAGGCTTCCGAATAAGT
GAGTCAAAGTGCCTGATGCAGGATGATACTAGAGGCATGTTTATGGAAACAACTGTGTTT
TGTACTTCCGAAGATGGGCTTGTATCTGGTTTTCGGACGGACTGTTAATGACAATTTGATC
GACGGGAATTGCACACCCAGAATCCACCACAAAAGAAAAGGTTTCTCTATTAGAATAC
CGTAAGAGACAACGTGAAGCTAGGAAAAGTGGCTCTAAGACAGAGAACTTTCCACTCATT
AGTGTATCACCCCATGCAAGTGGAAGCTTGAGCAACAATGGTGATGGCTGTGCCAGCAGT
AATGACAATGGGGAGCAGGTGGACCACTGCTAGCCTACCTTTACCAACACCAGCTACA
GTTTATAATGCCACTTCTGAAGAACTAGCAATAACTGCCCTGTTAAGGATGCTACTGCT
AGTGAGAAGAATGAACCAGAAGTTCAATGGACTGCCTCAACTTCAGTGGAAACAAGTCAGA
GAAAGGAGTTATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGATAGTGGG
GGAGAATCACCATGTGTCTCATGTTCCACGAGTCATGTTCAGTCTTCACCTTCATCTCAT
TCAAATCACATACCCCAAGTTGCAAGCTAAGGGCCAGTCCCTTCTTTCAGTGAACCTTATG
GAAGACCCTGATCCTGAAAATCCAGAACCCACAACCTACGAATGAATGTCCATCCCCAGAT
ACTTCTCAAATACTTGTAAAAGTCTCCAAAAATGAGCAAGCCTGGTTTCACCTGGATCT
GTAATTCCTGCTCAAGCACACGGGAAAATATTACAAAACAGATCCCCAATGGGACTCC
ACAGTTAGTGCATCCGAAGCTGAAAATGGTGTTTCACCTAAAAACAGAGCTCCAACAAAAA
CAGCTATCAAATAACAACCAAGCACTTTCAAAGAATCATCCTCCTCAGACACACGTTTCGT
AATTCATCTGAGCAACTTTTCAAAAAGCTGCCTTCTGTGCCAACAAAGTTGCACTGTCTCT
CCATCACCTCACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGTACAGCAT
GGTTATCTTTTACCAAAGCCTCCTTTCACAGCAGTTAGGATCTCCCTACAGGCCTCATCAT
TCACAGTCACCTCAAGTTGGAACACCTCAGCGAGAGCCTCAAAGAACTTTTATCCAGCA
GCACAGAACCTTCCAGCCAATACTCAGCAGGCAACTTCTGGAAACATTATTTACACAGACA
CCCTCAGGACAATCTTCAGCAACATACAGTCAGTTTAAACCAACAAAGTCTGAACAGCACG
GCACCACCCCTCCACCTCCTCCACCTCCTTCTTCTGCTTACTATCAAAACCAGCAGCCC
TCTGCAAACTTTTCAGAATTATAATCAGCTCAAAGGTAGTCTTTCTCAACAAACTGTGTTT
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CACGTGACTCCAGGGCATTTTTTTGCCCTCTCAGAACCTTACCATTACCATCAAACCTGCT
GCTGCCGTAGTCCCCCTCCTCCTCCACCACCACCTGCTCCAGGACCGCACCTTGTACAA
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CCTTCCAGTGTTTTTGGCTTCTGGGCATCATACCATCAGCTCAAGCCTTACACCACCCA
CCTCATCAAGGACCTCCACTTTTTCTTTCGAGTGCTCATCCAACCTGTACCACCGTATCCC
TCACAAGCTACACATCATACCACTTTGGGACCGGGACCCCAAGCAGCCTTCTGGAACA
GGGCCACATTGTCCATTACCTGTACAGGTCTCATCTCCAGCCCCAAGGACCAAACAGT
ATTCAAACACCTACTGCTTCAGGGTCTGTCTCATCCTGGCTCTGTGGCCCTGCCACAT
GGGGTTCAAGGACCTCAGCAGGCATCTCCAGTGCCTGGACAGATTCCAATTCACAGAGCA

FIGURE 1 (CONT'D)

CAGGTGCCACCAACATTTCAAAACAATTACCATGGGTGAGGTGGCATTAAAATGGACTC
 CAAAAACATTTTTTTTAAATGTTCTGTAAGATAAACTGTATATTTTATATGTACCTGTAA
 GGTACTTTTTTAAAGCTTGTACATGAACCTTTGTATAAAAAACACCAGTGCTCTTTCGTTG
 TATTTTTCTCATTTTTTGCTTTTTTAAATTCCTTTAAAAAATGTGCTGTTAAGCCAGTATT
 AGGTATCTTTATTTTGTAAAGTGAACATTCCAGCTGTTTTTTTCTGGCAGATCTGATGCTG
 ATTTGATGCTGTATGATCTTTTTTTTTTTTTTTAGTTAAATTCATTTAGTGAATGTTCTAT
 TATTTTATACATACACATTAAGTACTCAGCTAAGTAATGGCACTATGAGGATTTTTTTTTT
 TCTTTCCTGTGAGCAGCAGTTCTGTGAATGCATCTTAGGTATAAAAAATGCAATACAGATT
 TTTATATTTTTGGTGTGGACATGGCTCATTTTTGTTTTACCAGTTATTTGCAAGCAAAATGT
 AATTTAATGTATAGATGATTTCTAATGTCTCCTGACAACTGTAAATACTGCATTTCTTT
 TGCATATATAATTGCTTACAGCTTTTCTCATTTGATATATAGCATTGTACATATGACAAG
 TCTTTTGCAAACTGTGTGATCTTTGTGAAAGTAGTACAGTATATGACCTTTAATTTCTT
 TTTTATTTTAAATATACTGTCACTGAAGCACTGGTTGGGCATTTTAATTCATGTTAAT
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 TGTGTTTTCTACAGAAGTTCTAGTTTTCAAATATAGATTGTAAGGAGCCTTCAATTTTCTT
 TAGCGACTACTACCTCAGCAACAGGAGGCAGCAAGGGGCTGTTCTGTGGTGGTTTCTGT
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 Gene 391. >ENST00000333597 cDNA sequence
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 TATGCGGACCATAATTATGGTGTCTCGTCCTCCTCCGACACCTCCGGCTTCCCCTCCTCCA
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 TCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGTTATGGTACTGATGTAACCAGG
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 AGGGAAAATATGTGAGATGGTGATACCAGTGCAACTGAGAGTGGTGATGAGGTTTCTGTG
 GAATTATATACTGCATTTTCAACATCAATTACTTTAACTGCTTCAAGAGTT
 TCCAAAGTTAATGATAAAGAAGGAAAAAAGCGGGGAGAAAGAACACATTTCAAAA
 TGTAAAAAGGCATTTTCTGTAAGGATCTAGGAAGTCATCAAGAGTTTAGGGTTTCAAGTCCA
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 ATGGATCGATATGAAGAAGCAAATAACAACAGTACAGTGAGGGTGTTCAGAGGGAGGCA
 CAAAGAATAGCTCTGAGATTAGGCAATGGAATGACAAAAAGAGATGAATAAATCCGAT
 TTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAG
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 AAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTTTAAAGACCATACCCT
 TTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTT
 GGGAATGAGGCTCGATTTCATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGAA
 ATTCAGATGGAACCATACATCTTTATATTTTATTCTATACACAGTATTTCAAAGGGAAT
 GAAATTACTATTGCCTTTGATTTTGAATATGGAATTTGTAAGTACAAGGTGGACTGTGCA
 TGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAAAAT
 ATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAAAAGACAAGAGAAGAAAGAAAA
 ATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAAAAGAGAGAGAAAAGAAGAGAACAA
 GCTTTGGAAAGGATCAGCACAGCCAAAACCTGAAGTTAAAACCTGAATGTAAAGATACACAG
 ATTTGTGATGATGCTGAAGTTATTGAGGAACAAGCAAAAGAAGAAAATGCTAGCAAGCCA
 ACCCTGCCAAAGTAAATAGAACTAAACAGAGAAAAAGTTTCTCGGAGTAGGACTCAC
 ATTTGGACAGCAGCGTCGGAGACACAGAACTGTGAGCATGTGTTTCAATATCCAGCCATCT
 TCTCCTGATATAGAAGTTACTTCACAACAAAATGATATTGAAAATACTGTACTTACAATA
 GAACCAGAACTGAACTGCACTAGCAGAAATAATTACTGAACTGAAGTTCCAGCACTT
 AATAAATGTCTACCAAGTACCCCAAAACAAAGAAGCACTTGGTTAATGAATGGTTAAGT
 GAGAAGAATGAGAAGACAGGAAAACCTTCAGATGGCCTTTTCAAGAGGCCTCTACGCATA
 ACTACAGATCCTGAAGTGTAGCTACACAACCTCAATTCTTTACCAGGTCTCACTTACAGC

FIGURE 1 (CONT'D)

CCCCATGTATACTCCACTCCTAAGCATTATATTAGATTTACTTCACCATTCTTTTCAGAA
 AAAAGGAGAAGAAAAGAACCTACTGAAAACATTTCTGGTTCATGCAAGAAGCGATGGTTG
 AAACAAGCTCTGGAAGAAGAAAATTTCAGCAATTTTACATAGATTTAATTACCCCTGTCAA
 GAAAGATCCAGAAGTCTGCAGTCAATGAATATTTCTTCCCAGAAAGTTCTCCAGAAAT
 AAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCTTCAACCATGTTAACATTGGG
 GCCTTTTAGAAATTCTAATTTAACTGAACTGGGTCTGCAAGAAATAAGACTATTGGTTA
 TACGAGCCCTAGGAGTAGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAACCTGT
 GTCAGACCTTCAGCTAGGACTCGATGCAGTTGAGCCAACCTGCCCTACATAAAACCTGGA
 AACGCCTGCACATGACAGGGCTGAGCCCAACAGCCAACCTGGACTCGACTCACTCTGGACG
 GGGCACAATGTATTCTTCTGGGTAAAGAGCCCTGACAGAACAGGAGTTAACTTCTCAGT
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 AGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGA
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 ATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGCCAGTCCCTTCTTTTCAGTGA
 ACTTATGGAAGACCCTGATCCTGAAAATCCAGAACCCCACTACGAATGAATGTCCATC
 CCCAGATACTTCTCAAAATACTTGTAAGTCCCTCCAAAATGAGCAAGCCTGGTTCAAC
 TGGATCTGTAATTCCTGCTCAAGCACACGGGAAAATATTACAAAACAGATCCCCAATG
 GGACTCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTTACCTAAAAACAGAGCTCCA
 AAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAGAATCATCCTCCTCAGACACA
 CGTTCGTAATTCATCTGAGCAACTTTACAAAAGCTGCCTTCTGTGCCAACAAAGTTGCA
 CTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGT
 ACAGCATGGTTATCTTTACCAAAGCCTCCTTCACAGCAGTTAGGATCTCCCTACAGGCC
 TCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGAGAGCCTCAAAGAACTTTTA
 TCCAGCAGCACAGAACCTTCCAGCCAATACTCAGCAGGCAACTTCTGGAACATTATTTAC
 ACAGACACCTCAGGACAATCTTCAGCAACATACAGTCAGTTTAACCAACAAAGTCTGAA
 CAGCACGGCACCAACCCCTCCACCTCCTCCACCTCCTTCTTCTGCTTACTATCAAAACCA
 GCAGCCCTCTGCAAACTTTTCAAGATTATAATCAGCTCAAAGGTAGTCTTTCTCAACAAAC
 TGTGTTTACATCAGGACCAAATCAAGCACTTCTGGCACCACAAGCCAGCAAACAGTTCC
 AGGACACCACGTGACTCCAGGGCATTTTTTGGCCCTCTCAGAACCCTACCATTACCATCA
 AACTGCTGCTGCCGTAGTCCCCCTCCTCCTCCACCACCACCTGCTCCAGGACCGCACCT
 TGTACAACAGCCGAATTCCTCATCAGCAACACTCTGTAGCACATGTAGTAGGGCCTGTTCA
 TGCGGTCAACCCCTGGGTGCATATTCTTCTCAAAGTCTGGACACCACTTACCCCCACC
 CCCACCCCTCCTGGTCTGCCCCCTCATCACCATCCACCACCCCATCCATCCACAGGACT
 CCAAGGTCTACAAGCACAAACACCAGCATGTTGTAAATTTCAGCACCCCCACCACCCCTCC
 GCCGCCACCTTCCAGTGTTTTTGGCTTCTGGGCATCATACCACATCAGCTCAAGCCTTACA
 CCACCCACCTCATCAAGGACCTCCACTTTTTCTTCTGAGTGCTCATCCAACGTGACCACC
 GTATCCCTCACAAGCTACACATCATACCACTTTGGGACCGGGACCCAGCACCAGCCTTC
 TGGAACAGGGCCACATTGTCCATTACCTGTACAGGTCTCATCTCCAGCCCCAAGGACC
 AAACAGTATTCAAACACCTACTGCTTCAGGGTTCTGTCTCATCCTGGCTCTGTGGCCCT
 GCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTGCCTGGACAGATTCCAATTCA
 CAGAGCACAGGTGCCACCAACATTTCAAAACAATTACCATGGGTGAGGTGGCATTA
 Gene 392. >ENST00000257745 cDNA sequence
 AAGAGGCTGCGCGCTGCTGTTTGGGGAGGGGTGTGTGGAGCCGGTCTGTGTCCGCAG
 TGGCTGCTGTGCGGGGGTGCCTGTTGCGGGAGGTGCGGAGAGACTCCTTGGGGGTGAG
 CACTGTGGCTGGCATGCCCCAGTGTTTGGATACCAATGCATAGGACTCCATAGTAATCG
 AATTTACCAGAGGCGAACGTGATGAGCATAGTGATCCATTGGGGGTGATACAGCAGAG

FIGURE 1 (CONT'D)

ACGTCATACTTGAAATGGCTGCAGGTTT CAGAAC CAGAATCCGTAGAAGCTAGCCCTGTG
GTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCA
CACAGTTACATTGGTTTGGCCCTATGCGGACCATAATTATGGTGCTCGTCCTCCTCCGACA
CCTCCGGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
ACTCCTAATTTTTGATGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
TATGGTACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATC
TGTTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCAT
ATTCTGATACATATCTATGTGAACGTTGT CAGCCTAGGAATTTGGATAAAGAGAGGGCA
GTGCTACTACAACGCCGGAAGGGGAAAATATGT CAGATGGTGATACCAGTGCAACTGAG
AGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTT CAGCATACTCCAACATCAATT
ACTTTAACTGCTTCAAGAGTTTTCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAG
AAAGAACAACACATTTCAAATGTAAAAGGGTT CAGCTCCAGAGATTGATCCTTCATCT
GATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAA
GCAAATAACAACAGTACAGTGAGGGTGTTCAGAGGGAGGCACAAAGAATAGCTCTGAGA
TTAGGCAATGGAAATGACAAAAAGAGATGAATAAATCCGATTTGAATACCAACAATTTG
CTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAGAAAATTCTTAAATCTGCA
AAAGATTTGCCTCCTGATGCACCTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAA
CAGTTTGAAGCAAATGGGTATTTCTTTAAAAGACCATACCCTTTTGTGTTATTCTACTCT
AAATTTTCATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTC
ATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGAAATTCAAGATGGAACCATA
CATCTTTATATTTATTCTATACACAGTATTTCAAAGGGAAGTGAATTTACTATTGCCTTT
GATTTTGAATGATGGAATTTGTAAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCCA
GAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAATATCAATAGTGGTTATGAG
ACCAGACGGAAAAAGGAAAAAAGACAAAGATATTTCAAAGAAAAAGATACACAAAAT
CAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAAATGAAGAGCCCAGAACTAAA
CAAAGAAAGCTTTCTCCACTGAGACTATCAGTATCAAATAATCAGGAACCAGATTTTATT
GATGATATAGAAGAAAAAAGTCTTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAG
ATTGCAGAAAGGAAAGGAAGATGAACTGGACAGTTGATGGATGTGGTTCTGTTCTGG
TTTAGAGCTGAAGCATCTGTCAAGGCTCTGGGTCTTACTCTTAATGTTCTCTTTGGATAG
Gene 393. >ENST00000222422 cDNA sequence
TATTCAGGACCATAATTATGGTGCTCGTCCTCCTCCGACACCTCCGGCTTCCCCTCCTCC
ATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCCTAATTTTGTGTAAC
TTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGTTATGGTACTGATGTAACCAG
GTGCATATGTGGTTTTACACATGATGATGGATACATGATCTGTTGTGACAAATGCAGCGT
TTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCATATTTCTGATACATATCTATG
TGAACGTTGT CAGCCTAGGAATTTGGATAAAGAGAGGGCAGTGCTACTACAACGCCGGA
AAGGGAAAATATGT CAGATGGTGATACCAGTGCAACTGAGAGTGGTGATGAGGTTCTGT
GGAATTATATACTGCATTT CAGCATACTCCAACATCAATTACTTTAACTGCTTCAAGAGT
TTCCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAGAAAGAACACACATTTCAA
ATGTAAAAGGCATTTCTGTGAAGGATCTAGGAAGTCATCAAGAGTTAAGGGTT CAGCTCC
AGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATG
GATGGATCGATATGAAGAAGCAAATAACAACAGTACAGTGAGGGTGTTCAGAGGGAGGC
ACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAAAAGAGATGAATAAATCCGA
TTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAA
GAAAATTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCACCTTATCATTGAATACAGAGG
GAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTTTAAAAGACCATACCC
TTTTGTGTTATTCTACTCTAAATTTTCATGGGCTAGAAATGTGTGTTGATGCAAGGACTTT
TGGGAATGAGGCTCGATTCTCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGA
AATTCAAGATGGAACCATACATCTTTATATTTATTCTATACACAGTATTTCAAAGGGAAC
TGAAATTACTATTGCCTTTGATTTTGAATGATGTAAGTACAAGGTGGACTGTGC
ATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAAAA
TATCAATAGTGGTTATGAGACCAGACGGAAGGAAAAAAGGAAAAAAGATATTTCAAAGAA
AAAGATACACAAAATCAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAAATGAAG
AGCCAGAACTAAACAAAGAAAGCTTTCTCCACTGAGACTATCAGTATCAAATAATCAG

FIGURE 1 (CONT'D)

GAACCAGATTTTATTGATGATATAGAAGAAAAAACTCCTATTAGTAATGAAGTAGAAATG
GAATCAGAGGAGCAGATTGCAGAAAGGAAAAGGAAGATGACAAGAGAAGAAAGAAAAATG
GAAGCAATTTTGCAAGCTTTTGCCAGACTTG

Gene 394. >ENST00000334877 cDNA sequence

CATCCTCCTCAGACACACGTTTCGTAATTCATCTGAGCAACTTTCACAAAAGCTGCCTTCT
GTGCCAACAAAGTTGCACTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCATCC
ACGCCTCACACACCTGTACAGCATGGTTATCTTTACCAAAGCCTCCTTCACAGCAGTTA
GGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGAGAG
CCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCCAGTGTTTTGGCTTCTGGGCATC
ATACCACATCAGCTCAAGCCTTACACCACCCACCTCATCAAGGACCTCCACTTTTTCTT
CGAGTGCTCATCCAAGTGTACACCGTATCCCTCACAAGCTACACATCATACCACTTTGG
GACCGGGACCCCAAGCAGCCTTCTGGAACAGGGCCACATTGTCCATTACCTGTCACAG
GTCCTCATCTCCAGCCCCAAGGACCAACAGTATTCCAACACCTACTGCTTCAGGGTTCT
GTCCTCATCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTC
CAGTGCCTGGACAGATTCCAATTACAGAGCACAGGTGCCACCAACATTTCAAACAATT
ACCATGGGTGAGGGTGGCATTAAATGGACTCCAAAACATTTTTTTAAATGTTCTGTAA

Gene 395. >ENST00000249297 cDNA sequence

AAGAGGCTGCGCGCTGCTGTTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTCCGCAG
TGGCTGCTGTGCGGGGGTTCGCTGTTTCGCGGAGGTGCGGAGAGACTCCTTGGGGGTGAG
CACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCG
AATTTACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTGGGGGTTGATACAGCAGAG
ACGTCATACTTGGAAATGGCTGCAGGTTTCAAGAACGAAATCCGTAGAAGCTAGCCCTGTG
GTAGTTGAGAAATCCAACAGTTATCCCCACCAAGTTATATACCAGCAGCTCACATCATTCA
CACAGTTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGCTCGTCTCTCCGACA
CCTCCGGCTTCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
ACTCCTAATTTTTGATGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
TATGGTACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATC
TGTTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCAT
ATTCCTGATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCA
GTGCTACTACAACGCCGGAAGGGAAGGAAATATGTGAGATGGTGATACCAGTGCAACTGAG
AGTGGTGATGAGGTTTCTGTGGAATTATATACTGCATTTTCAACATCAATT
ACTTTAACTGCTTCAAGAGTTTTCCAAAGTTAATGATAAAGAAGGAAAAAAGCGGGGAG
AAAGAACAAACATTTTCAAATGTAAAAAGGCATTTTCGTGAAGGATCTAGGAAGTCATCA
AGAGTTAAGGGTTTCACTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGG
GAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACCAAGTACAGT
GAGGGTGTTTCAAGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAA
AAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAG
AGCCATATACAAAAGAATAAGAAAATTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCA
CTTATCATTGAATACAGAGGGAAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTAT
TTCTTTAAAGACCATAACCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATG
TGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTTCATCAGGCGGTCTTGACACCC
AATGCAGAGGTGAGGCATGAAATTCAAGATGGAACCATACATCTTTATATTTATTCTATA
CACAGTATTTCAAAGGGAACTGAAATTACTATTGCCTTTGATTTTGAATATGGAAATTGT
AAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAACGT
AGTTCTGAATCCATGGAAAATATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAA
AAAGACAAAGATATTTCAAAGAAAAAGATACACAAATCAGAATATTACTTTGGATTGT
GAAGGAACGACCAACAAAATGAAGAGCCAGAACTAAACAAAGAAAGCTTTCTCCACTG
AGACTATCAGTATCAAATAATCAGGAACCAAGATTTTATTGATGATATAGAAGAAAAAACT
CCTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAGATTGCAGAAAGGAAAAGGAAG
ATGACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAAAAG
AGAGAGAAAAGAAGAGAACAAAGCTTTGGAAGGATCAGCACAGCCAAAACCTGAAGTTAAA
ACTGAATGTAAAGATACACAGATTGTGAGTGATGCTGAAGTTATTGAGGAACAAGCAAAA
GAAGAAAATGCTAGCAAGCCAAACCCCTGCCAAAGTAAATAGAATAAAGAGAGAAAAAGT
TTTTCTCGGAGTAGGACTCACATTGGACAGCAGCGTCCGAGACACAGAACTGTCAGCATG

FIGURE 1 (CONT'D)

TGTTT CAGATATCCAGCCATCTTCTCCTGATATAGAAGTTACTTCACAACAAAATGATATT
GAAAATACTGTACTTACAATAGAACAGAACTGAACTGCACTAGCAGAAATAATTACT
GAACTGAAGTTCCAGCACTTAATAAATGTCCTACCAAGTACCCAAAACAAAGAAGCAC
TTGGTTAATGAATGGTTAAGTGAGAAGAATGAGAAGACAGGAAAACCTTCAGATGGCCTT
TCAGAAAGGCCTCTACGCATAACTACAGATCCTGAAGTGTTAGCTACACAACCTCAATTCT
TTACCAGGTCTCACTTACAGCCCCATGTATACTCCACTCCTAAGCATTATATTAGATTT
ACTTCACCATTCTTTTCAGAAAAAAGGAGAAGAAAAGAACCTACTGAAAACATTTCTGGT
TCATGCAAGAAGCGATGGTTGAAACAAGCTCTGGAAGAAGAAAATTGAGCAATTTTACAT
AGATTTTAATTCACCCTGTCAAGAAAGATCCAGAAGTCTGCAGTCAATGGTGAAAATAAA
AGTCCACTACTATTAAATGACAGCTGTTCCCTTCAGATTTAACTACACCCTAAAAAAA
CGAAGATTTTATCAGTTGCTAGATTTCGGTTTACTCAGAAACCTCCACACCTACTCCTTCC
CCGTATGCTACACCAACTCACACCGATATTACTCCTATGGACCCATCTTTTGCCACGCCT
CCACGGATAAAATCAGATGATGAACTTGTAGAAATGGTTATAAACCCATATATTACCA
GTTACCCCAAGTAACTCCTGGTACACCAGGAAATACCATGCACTTTGAGAATATTTCTTCC
CCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCT
TCAACCATGTTAACATTGGGGCCTTTTAGAAATTCTAATTTAACTGAACTGGGTCTGCAA
GAAATAAAGACTATTGGTTATACGAGCCCTAGGAGTAGGACTGAAGTCAACAGGCAGTGT
CCTGGAGAAAAGGAACCTGTGTGACACCTTCAGCTAGGACTCGATGCAGTTGAGCCAAC
GCCCTACATAAAACCTGGAACCGCTGCACATGACAGGGCTGAGCCCAACAGCCAACCTG
GACTCGACTCACTCTGGACGGGGCACAATGTATTCTTCTGGGTAAAGAGCCCTGACAGA
ACAGGAGTTAACTTCTCAGTGAACCTCAACTTGAGGGACCTGACACCCTCGCATCAGTTG
GAGGTTGGAGGAGGCTTCCGAATAAGTGAGTCAAAGTGCCTGATGCAGGATGATACTAGA
GGCATGTTTATGGAACAACCTGTGTTTTGTACTTCCGAAGATGGGCTTGTATCTGGTTTC
GGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCCAAGATCCACCACAA
AAGAAAAAGGTTTCTCTATTAGAATACCGTAAGAGACAACGTGAAGCTAGGAAAAGTGGC
TCTAAGACAGAGAACTTTCCACTCATTAGTGTATCACCCCATGCAAGTGGAAGCTTGAGC
AACATGGTGATGGCTGTGCCAGCAGTAATGACAATGGGGAGCAGGTGGACCACACTGCT
AGCCTACCTTTACCAACACCAGCTACAGTTTATAATGCCACTTCTGAAGAACTAGCAAT
AACTGCCCTGTTAAGGATGCTACTGCTAGTGAGAAGAATGAACCAGAAGTTCAATGGACT
GCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGT
GATCACCGAAAAGATAAAGATAGTGGGGGAGAATCACCATGTGTCTCATGTTACCGAGT
CATGTTTCAGTCTTCACCTTCATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGC
CCAGTCCCTTCTTTTCAGTGAACCTTATGGAAGACCCCTGATCCTGAAAATCCAGAACCACA
ACTACGAATGAATGTCCATCCCCAGATACTTCTCAAAATACTTGTAAAAGTCTTCCAAA
ATGAGCAAGCCTGGTTACCTGGATCTGTAATTCCTGCTCAAGCACACGGGAAAATATTC
ACAAAACCAGATCCCCAATGGGACTCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTT
CACCTAAAAACAGAGCTCCAACAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAG
AATCATCTCTCCTCAGACACACGTTTGTAAATTCATCTGAGCAACTTTACAAAAGCTGCCT
TCTGTGCCAACAAAGTTGCACTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCA
TCCACGCCTCACACACCTGTACAGCATGGTTATCTTTCACCAAAGCCTCCTTCACAGCAG
TTAGGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGA
GAGCCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCCAGCCAATACTCAGCAGGCA
ACTTCTGGAACATTATTTACACAGACACCCTCAGGACAATCTTCAGCAACATACAGTCAG
TTTAACCAACAAAGTCTGAACAGCACGGCACCAACCCCTCCACCTCCTCCACCTCCTTCT
TCGTCTTACTATCAAAACCAGCAGCCCTCTGCAAACTTTTCAAGATTATAATCAGCTCAA
GGTAGTCTTTCTCAACAACTGTGTTTACATCAGGACCAAATCAAGCACTTCTTGGCACC
ACAAGCCAGCAAACAGTTCCAGGACACCAAGTGAATCCAGGGCATTTTTTGCCCTCTCAG
AACCTTACCATTACCATCAAATGCTGCTGCGTAGTCCCCCTCCTCCTCCACCACCA
CCTGCTCCAGGACCGCACCTTGTACAACAGCCGAATTCCCATCAGCAACACTCTGTAGCA
CATGTAGTAGGGCCTGTTTCATGCGGTCAACCTGGGTGCGCATATTATTCTCAAATGCT
GGACACCACTTACCCCCACCCCCACCCCTCCTGGTCTGCCCCCTCATCACCATCCACCA
CCCCATCCATCCACAGGACTCCAAGGTCTACAAGCACAACACCAGCATGTTGTAAATTCA
GCACCCCCACCAACCCCTCCGCCGCCACCTTCCAGTGTTTTGGCTTCTGGGCATCATACC
ACATCAGCTCAAGCCTTACACCACCCACCTCATCAAGGACCTCCACTTTTCTTTCGAGT

FIGURE 1 (CONT'D)

GCTCATCCAAGTGTACCACCGTATCCCTCACAAGCTACACATCATACCACTTTGGGACCG
 GGACCCAGCACCAGCCTTCTGGAACAGGGCCACATTGTCCATTACCTGTACAGGTCCT
 CATCTCCAGCCCCAAGGACCAACAGTATTCCAACACCTACTGCTTCAGGGTTCTGTCT
 CATCCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTG
 CCTGGACAGATTCCAATTACAGAGCACAGGTGCCACCAACATTTCAAACAATTACCAT
 GGGTCAGGGTGGCATTAAATGGACTCCAAAAACATTTTTTAAATGTTCTGTAAGATAA
 ACTGTATATTTTATATGTACCTGTTAAGGTACTTTTTAAAGCTTGACATGAACCTTTGT
 ATAAAAAACACCAGTGCTCTTTCTGTTGATTTTTCTCATTTTTTGCTTTTTAAATTCCTT
 TAAAAAATGTGCTGTTAAGCCAGTATTAGGTATCTTTATTTTGTAAAGTGAACATTCCAGC
 TGTTTTTTTTCTGGCAGATCTGATGCTGATTTGATGCTGTATGATCTTTTTTTTTTTTTTA
 GTTAAATTCATTTAGTGAATGTTCTATTATTTTATACATACACATTAAGTACTCAGCTAA
 GTAATGGCACTATGAGGATTTTTTTTTCTTTCTGTGTCAGCAGCAGTTCTGTGAATGCAT
 CTTAGGTATAAAAAATGCAATACAGATTTTTATATTTTGGTGTGGACATGGCTCATTTTGT
 TTTACCAGTTATTTGCAAGCAAAATGTAATTTAATGTATAGATGATTTCTAATGTCTCCT
 GACAACTGTAAATACTGCATTTCTTTTGCCTATATAATTGCTTACAGCTTTTCTCATTT
 GATATATAGCATTGTACATATGACAAGTCTTTTGCAAACTGTGTGATCTTTGTGAAAGT
 AGTACAGTATATGACCTTTAATTTCTTTTTTATTTTAAATATACTGTCACTGAAGCAC
 TGGTTGGGCATTTTAATTCATGTTAATAAATCACAATTATGTGAGTTTT

Gene 396. >ENST00000334914 cDNA sequence

GCGGGCGCAGGGGGCCGAGTCGGAGACCGTGCCGGAGTTCCGGGAGCGGCAACAGAGTGGG
 CATAGACACTCCGAGCAGCCTCGCCGTCGTCTCTGCGTTCTGTTGACTGCCTGGCTGCC
 CCCTCCCCTACTCCTCGGTTCTGCTGGAAGAGGCTGCGCGCTGCTGTTTGGGGAGGGGGT
 GTGTGGAGCCGGGTCTGTGTCCGAGTGGCTGCTGTGCGGGGGTGCCTGTTTCGCGGAG
 GTGCGGAGAGACTCCTTGGGGGTGCGAGCACATAACGGGGTTCCGGGTGTCTCGTGTGTGAA
 CATCACAGGTCTATTCTGGATAAGCAGGTTTTGTGAAGACATTTATTCTTTCTTGGACCT
 CAGATTTACCAGACATCTCATGGGTTTTGTGGATGCACTTAGATGTTTGCAATGAGCACTG
 TGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCGAATTT
 ACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTTGGGGGTTGATACAGCAGAGACGTC
 ATACTTGGAAATGGCTGCAGGTTTCAAGAACAGAAATCCGTAGAAGCTAGCCCTGTGGTAGT
 TGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCACACAG
 TTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGTCTCGTCTCCTCCGACACCTCC
 GGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCC
 TAATTTTGATGAAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGTTATGG
 TACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATCTGTTG
 TGACAAATGCAGCGTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCATATTCC
 TGATACATATCTATGTGAACGTTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCAGTGCT
 ACTACAACGCCGGAAGGGAATATGTGAGATGGTGATACAGTGCAACTGAGAGTGG
 TGATGAGGTTCTGTGGAATTATATACTGCATTTTCAACATCAATTACTTT
 AACTGCTTCAAGAGTTTCAAAGTTAATGATAAAGAGGAAAAAAGCGGGAGAAAGA
 ACAACACATTTCAAATGTAAAAAGGCATTTCTGTGAAGGATCTAGGAAGTCATCAAGAGT
 TTAGGGTTCAAGATCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGGGAGAC
 AAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACAGTACAGTGAGGG
 TGTTCAAGGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAAAAGA
 GATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCA
 TATACAAAAGAATAAGAAAATTTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTAT
 CATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTT
 TAAAAGACCATAACCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATGTGTGT
 TGATGCAAGGACTTTTGGGAATGAGGCTCGATTATCAGGCGGTCTTGACACCCAATGC
 AGAGGTGAGGCATGAAATTCAAGATGGAACCATACATCTTTATATTTATTCTATACACAG
 TATTCCAAAGGGAAGTGAATTAATGCTTGCCTTTGATTTTGAAGTATGGAAATGTCTCAC
 TCTGTACCCAGGCTGGAATGCAGTGGCACAATCTTGGCTCACTGCAACTTCTGCCTCCT
 GGGTTCAAGCAATTCTCCTGCCTTAGCCTATCGCGTAGCCAGGATTACAGGTGCCTGCCA
 CCATGGCCAG

Gene 397. >ENST00000334884 cDNA sequence

FIGURE 1 (CONT'D)

AAGAGGCTGCGCGCTGCTGTTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTCCGCAG
 TGGCTGCTGTGCGGGGGTGCCTGTTGCGGAGGTGCGGAGAGACTCCTTGGGGGTCGAG
 CACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCG
 AATTTACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTGGGGGTTGATACAGCAGAG
 ACGTCATACTTGGAAATGGCTGCAGGTTCAGAACAGAATCCGTAGAAGCTAGCCCTGTG
 GTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCA
 CACAGTTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGCTCGTCCTCCTCCGACA
 CCTCCGGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
 ACTCCTAATTTTTGATGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
 TATGGTACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATC
 TGTGTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGATTGATAGGCAGCAT
 ATTCCTGATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCA
 GTGCTACTACAACGCCGGAAAAGGGAAAATATGTGAGATGGTGATACCAGTGCAACTGAG
 AGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTTTCAACATCAATT
 ACTTTAACTGCTTCAAGAGTTTTCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAG
 AAAGAACAACACATTTCAAATGTAAAAGGCATTTCTGTAAGGATCTAGGAAGTCATCA
 AGAGTTAAGGGTTTCAAGCTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGG
 GAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACAGTACAGT
 GAGGGTGTTTCAAGGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAA
 AAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAG
 AGCCATATACAAAAGAATAAGAAAATTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCA
 CTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTAT
 TTCTTTAAAGACCATAACCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATG
 TGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTCATCAGGCGGTCTTGACACCC
 AATGCAGAGGTGAGGCATGAAATTCAAGATGGAACCATACATCTTTATATTTATTCTATA
 CACAGTATTTCAAAGGGAACTGAAATTACTATTGCCTTTGATTTTGAATATGGAAATTGT
 AAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGT
 AGTTCTGAATCCATGGAAAATATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAA
 AAAACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAAAAG
 AGAGAGAAAAGAAGAGAACAAAGCTTTGGAAAGGATCAGCACAGCCAAAACCTGAAGTTAAA
 ACTGAATGTAAAGATACACAGATTGTGATGCTGAAGTTATTGAGGAACAAGCAAAA
 GAAGAAAATGCTAGCAAGCCAAACCCCTGCCAAAGTAAATAGAACTAAACAGAGAAAAAGT
 TTTTCTCGGAGTAGGACTCACATTGGACAGCAGCGTCGGAGACACAGAACTGTGAGCATG
 TGTTGAGATATCCAGCCATCTTCTCCTGATATAGAAGTTACTTCACAACAAAATGATATT
 GAAAATACTGTACTTACAATAGAACAGAACTGAACTGCACTAGCAGAAATAATTACT
 GAACTGAAGTTCCAGCACTTAATAAATGTCTTACCAAGTACCCCAAAACAAAGAAGCAC
 TTGGTTAATGAATGGTTAAGTGAGAAGAATGAGAAGACAGGAAAACCTTCAGATGGCCTT
 TCAGAAAGGCCTCTACGCATAACTACAGATCCTGAAGTGTTAGCTACACAACTCAATTCT
 TTACCAGGTCTCACTTACAGCCCCCATGTATACTCCACTCCTAAGCATTATATTAGATTT
 ACTTCACCATTCTTTTCAAGAAAAAGGAGAAGAAAAGAACCTACTGAAAAATTTCTGGT
 TCATGCAAGAAGCGATGGTTGAAAACAGCTCTGGAAGAAGAAAATTGAGCAATTTTACAT
 AGATTTAATTCAACCTGTCAAGAAAGATCCAGAAGTCCTGCAGTCAATGGTGAAAATAAA
 AGTCCACTACTATTAAATGACAGCTGTTCCCTTCCAGATTTAACTACACCACTAAAAAAA
 CGAAGATTTTATCAGTTGCTAGATTGGGTTTACTCAGAAACCTCCACACCTACTCCTTCC
 CCGTATGCTACACCAACTCACACCGATATTACTCCTATGGACCCATCTTTTGCCACGCCT
 CCACGGATAAAATCAGATGATGAACTTGTAGAAATGGTTATAAACCCATATATTACCA
 GTTACCCCAAGTAACTCCTGGTACACAGGAAATACCATGCACTTTGAGAATATTTCTTCC
 CCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCT
 TCAACCATGTTAACATTGGGGCCTTTTAGAAATTTCTAATTTAACTGAACTGGGTCTGCAA
 GAAATAAAGACTATTGGTTATACGAGCCCTAGGAGTAGGACTGAAGTCAACAGGCAGTGT
 CCTGGAGAAAAGGAACCTGTGTGAGACCTTCAGCTAGGACTCGATGCAGTTGAGCCAAC
 GCCCTACATAAAACCTGGAAACGCCTGCACATGACAGGGCTGAGCCCAACAGCCAACCTG
 GACTCGACTCACTCTGGACGGGGCACAAATGTATTCTTCTGGGTAAAGAGCCCTGACAGA
 ACAGGAGTTAACTTCTCAGTGAACTCCAACCTTGAGGGACCTGACACCCTCGCATCAGTTG

FIGURE 1 (CONT'D)

GAGGTTGGAGGAGGCTTCCGAATAAGTGAGTCAAAGTGCCTGATGCAGGATGATACTAGA
GGCATGTTTTATGGAAACAACTGTGTTTTGTACTTCCGAAGATGGGCTTGTATCTGGTTTC
GGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCAGAAATCCACCACAA
AAGAAAAAGGTTTTCTCTATTAGAATACCGTAAGAGACAACGTGAAGCTAGGAAAAGTGGC
TCTAAGACAGAGAACTTTCCACTCATTAGTGTATCACCCCATGCAAGTGGAAGCTTGAGC
AACAATGGTGATGGCTGTGCCAGCAGTAATGACAATGGGGAGCAGGTGGACCACACTGCT
AGCCTACCTTTTACCAACACCAGCTACAGTTTATAATGCCACTTCTGAAGAACTAGCAAT
AACTGCCCTGTTAAGGATGCTACTGCTAGTGAGAAGAATGAACCAGAAGTTCAATGGACT
GCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGT
GATCACCGAAAAGATAAAGATAGTGGGGGAGAATCACCATGTGTCTCATGTTACCGAGT
CATGTTTCACTCTTACCTTCATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGC
CCAGTCCCTTCTTTTCACTGAACTTATGGAAGACCTGATCCTGAAAATCCAGAACCACA
ACTACGAATGAATGTCCATCCCCAGATACTTCTCAAATACTTGTAAAAGTCTCCAAAA
ATGAGCAAGCCTGGTTACCTGGATCTGTAATTCCTGCTCAAGCACACGGGAAAATATTC
ACAAAACCAGATCCCCAATGGGACTCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTT
CACCTAAAAACAGAGCTCCAACAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAG
AATCATCTCCTCAGACACACGTTTCTGTAATTCATCTGAGCAACTTTCAAAAAGCTGCCT
TCTGTGCCAACAAAGTTGCACTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCA
TCCACGCCTCACACACCTGTACAGCATGGTTATCTTTACCAAAGCCTCCTTCACAGCAG
TTAGGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGA
GAGCCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCAGCCAATACTCAGCAGGCA
ACTTCTGGAACATTATTTACACAGACACCCTCAGGACAATCTTCAGCAACATACAGTCAG
TTTAACCAACAAAGTCTGAACAGCACGGCACCACCCCTCCACCTCCTCCACCTCCTTCT
TCGTCTTACTATCAAAACCAGCAGCCCTCTGCAAACTTTTCAAGATTATAATCAGCTCAA
GGTAGTCTTTCTCAACAACTGTGTTTACATCAGGACCAAATCAAGCACTTCCTGGCACC
ACAAGCCAGCAAACAGTTCCAGGACACCACGTGACTCCAGGGCATTTTTTGGCCCTCTCAG
AACCTTACCATTACCATCAAACCTGCTGCTGCCGTAGTCCCCCTCCTCCTCCACCACCA
CCTGCTCCAGGACCGCACCTTGTACAACAGCCGAATTCCTCATCAGCAACACTCTGTAGCA
CATGTAGTAGGGCCTGTTTATGCGGTACCCCTGGGTGCGATATTATTCTCAAACCTGCT
GGACACCACTTACCCCCACCCCCACCCCTCCTGGTCTGCCCCCTCATCACCATCCACCA
CCCCATCCATCCACAGGACTCCAAGGTCTACAAGCACAAACACCAGCATGTTGTAAATTCA
GCACCCCCACCAACCCCTCCGCCGCCACCTTCCAGTGTTTTGGCTTCTGGGCATCATACC
ACATCAGCTCAAGCCTTACACCAACCCACCTCATCAAGGACCTCCACTTTTTCTTTCGAGT
GCTCATCCAACCTGTACCACCGTATCCCTCACAAGCTACACATCATACCACTTTGGGACCG
GGACCCAGCACCAGCCTTCTGGAACAGGGCCACATTGTCCATTACCTGTACAGGTCTT
CATCTCCAGCCCCAAGGACCAAACAGTATTCACACCTACTGCTTCAGGGTTCTGTCTT
CATCCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTG
CCTGGACAGATTCCAATTACAGAGCACAGGTGCCACCAACATTTCAAAACAATTACCAT
GGGTGAGGGTGGCATTAATAATGACTCCAAAAACATTTTTTTAAATGTTCTGTAAAGATAA
ACTGTATATTTTATATGTACCTGTTAAGGTACTTTTTTAAAGCTTGTACATGAACCTTTGT
ATAAAAAACACCAGTGCTCTTTTCTGTTGATTTTTCTCATTTTTTGCTTTTTTAAATTCCTT
TAAAAAATGTGCTGTTAAGCCAGTATTAGGTATCTTTATTTTTGTAAGTGAACATTCCAGC
TGTTTTTTTTCTGGCAGATCTGATGCTGATTTGATGCTGTATGATCTTTTTTTTTTTTTTA
GTTAAATTCATTTAGTGAATGTTCTATTATTTTATACATACATTAAGTACTCAGCTAA
GTAATGGCACTATGAGGATTTTTTTTTTCTTTCTGTCAGCAGCAGTTCTGTGAATGCAT
CTTAGGTATAAAAAATGCAATACAGATTTTTATATTTTGGTGTGGACATGGCTCATTTTGT
TTTACCAGTTATTTGCAAGCAAAATGTAATTTAATGTATAGATGATTTCTAATGTCTCCT
GACAACTGTAAATACTGCATTTCTTTTGCATATATAATTGCTTACAGCTTTTCTCATTT
GATATATAGCATTGTACATATGACAAGTCTTTTGCAAACTGTGTGATCTTTGTGAAAGT
AGTACAGTATATGACCTTTAATTTCTTTTTTATTTTAAATATACTGTACACTGAAGCAC
TGGTTGGGCATTTTAATTCATGTTAATAAATCACAATTATGTGAGTTTT

Gene 398. >ENST00000262940 cDNA sequence

GGACCCCGGTGTCTGGCTTCCCCGAGCCGGGACCCCGGATGGCCAAGCGCAGCTCGCT
GTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCAAGGACATCACTGGCAGCAGCGA

FIGURE 1 (CONT'D)

CCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGTACCGCCCCACCCCCA
GGACCGAGGGGCGCTCAGCCTCTCATCGGCCCGCGCTCTCCCGCAAAGGGGACAGCCAC
AGTGTGGAAGACCCTGTGCCCTTCTGGGGTGAGGAGTACCAAGTGCACCTGCCGCCAC
CTTCCACGCTGTGGCTTTCTATGTCATGGATGAGGATGCCCTCAGCCGGGACGACGTTAT
CGGAAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCACCTAAGGGTTTCAGCGGGTG
GGCCACCTGACGGAGGTGACCCCGATGAGGAGGTGCAGGGCGAGATCCACCTGCGGCT
GGAAGTGTGGCCAGGGGCCCCGGGCTGCCGGCTACGCTGCTCTGTGCTGGAGGCCAGGGA
TCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTCGTCCGAGTGCCTACAAGGG
CCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTT
TGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGCGTGGAGGCCTGGGACTGGGA
CCTTGTGAGCCGAAACGACTTCCTGGGCAAAGTGGTGATTGATGTCCAGAGACTGCGGGT
GGTGCAGCAGGAGGAGGGCTGGTTCGGGCTGCAGCCCGACCAAGTCCAAGAGCCGGCGGCA
TGACGAGGGCAACCTGGGCTCCTTGCAGCTGGAGGTGCGGCTGCGGGACGAGACGGTGCT
GCCCTCCAGCTACTACCAGCCACTGGTGCACCTGCTGTGCCACGAGGTCAAGCTGGGCAT
GCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACAACCAGCACCGAGTGTGCCA
GGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAGGGGCTGGCCAAGGACTTCCT
GGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAGACCAACACCTGTTCCGGAG
CAACTCTCTGGCCTCAAAGTCCATGGAGTCTTTTCTGAAGGTGGCCGGGATGCAGTACCT
GCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAGGAGAAGAAGTACGTGGAGCT
GGACCCAGCAAAGTGGAAGTTAAGGATGTAGGGTGCTCCGGGCTGCACCGCCCGCAGAC
CGAGGCCGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCACCTGGGGGCCCTGCT
GAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCCCGCGGTGGTGCAGCGCCACCTTCCGCCA
GCTCTTCCGGCGCTGCGCGAGCGCTTCCCCGGCGCCAGCACGAGAATGTACCGTTTCAT
CGCCGTCAACAGCTTCTGTGCTGCGCTTCTTCTCTCCCGCCATCATGTGCCCCAAGCT
CTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACCCAGCCGACCTGCTCCTGTTGGC
CAAGGCAGTCCAGAACGTGGGCAACATGGACACGCGGCTTCCAGGGCCAAGGAGGCTTG
GATGGAGCCGCTGCAGCCACCGTGCGCCAGGGCGTGGCGCAGCTGAAGGACTTCATCAC
CAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACGCTGAGTTTGCA
GGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCACAGGACCAAGGGCAAGGGCCCCCT
CATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGC
GAAGACGCCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGCAGCGGA
AAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTATGCAGGTATCTACACGGACGA
CGCCGGCAGGCCCCAGACTGCCTACCTGCAGTGCAAGTGTGTGAATGAGCTTAACCAAGTG
GCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGACTGCTGGGCTCCTACCAACC
TGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAGACAGGTGAGGG
CTGCGATAAGACCCGGTCACGGGTGACCCTGCAGGAGTGGAATGACCCTCTTGACCATGA
CCTTGAGGCCCAGCTCATCTGCCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAG
GCACCGGGAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAAGT
CCCCGAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAG
CTCCAGCCCGGCCGGCTCCCCACCCTCAGAGCCCAACTGCCTCCTGGAGCTGCAGACGTG
AGGCCCGCCCTACGCTCCCTTGTGAGTCCCCTGCCAAGCGCTCGGAGCCCCCCCAGGA
CACTCTGCACCCCTCACCCCGGTCTCTCTCATTAGGGTGAGGGCCTAGGTCTCTTCCA
GGTGGGGGAGGGGGGAGAGTCAGGAATAAGGGGATCCCCAGAAGTGCAGAGCTGAGCAGG
CTTGGGCCTGTATGGCTGGCCGGAAGTGTCCCCAGCTCCCTACAGACGCTGTAGCCATC
ACTGCCTCTCCAGGGACCCCTCTCTCTGCCCAGGACAGACCCAGCCAGAACCCTGCTA
GGATGGGCCCGACCCAGGGGTCTGGCCTCCAGGGACCTAGAGAATGGGAGGGAGAACGGG
GCCCCAGGAGACCCGGCCGCCACCCACCCGCTACCCCTTGGGTGCCACAGGGCTGTGCTG
TTGCCAACAGTAAACCTGCTCTTACTGTCCAGGCTCTGGGGTCTTGTGATGAGGGTCTGG
GGAGAAAGTGGGCCCCGGGGGACCCCGGAGGCTGTGGTGGATGTGCCGATGATGGGGCT
GACAGTATGGGCTCTGGGCATCCCTGTTCCCCCTCTTTCTTCCCCCACTCTTCTGGGG
TCGGGGGTTTCTTTCCCTTCCAGTTGCTGTCCCTGGGTCCCCTCTTTCATGTCCACAG
GCCACAGAGCCAGTGTGTCCAACCAGCTGTTCTCTCTCAAAGCAGCCCCCAAGCAAGT
CCCTTCTCTAGGGTGTCCCTGAGGACAGCACAGAGGCGGGACTCAGAGACCCCATTCCTC
TTCACGCAGCCCTTACCCCAAGCCCTCTAGCTGTGTGGCTGGCAGTGTGGCCACGTAGG

FIGURE 1 (CONT'D)

GGCTCCCATCCCCCACCATTGTGTACATGGGCTGCCAGGCTCAGCTCCCAGCTGCGTC
CACAGTGACCTGGATCAGGGTGGGGACAAGGACTGGACCTCCTTCTCCAGAAGGCCTTC
AGCTCTTGCCCTTGCCATGCAGTCACCTCCTTCCCCCTCTGACCCAGATCCCAAAGGTGC
ACCGTTGCCCCAGCCCCCTTCTGGCCCCATGGGGTTTCTCTGATGCCTTCATCATAGAGG
CCCGGGGCTGGTCCGATGGTTGGCAAACTTGACTCCGGCCAGTCCCCACTCTTGGGGA
CTTAGAACCCCTGCTGTCTGGGATCTGGCCTGCCTTCTTTGGTCAGTCCCTGTGGTCC
CCCACCAGCTCCCCCTCCCATAGGGCTGCCACCAAGCCCTGCCCCAGCCCAAGAGGAG
CCCCCACTGCCTGCGGGGAGTGTCTGGCCACCGGCTCACACCAATGACTTGGTCCT
GGGGTGGCAGAAGCAGCAGGTGACAGGAGCAGGGCCCCTGTCCCTCTCTTCTGGCCCTGT
GGTACCCAGGCCACACGTTGTGCCGCTCTTGGGGCTGACCGGCTGTAGGGACCACCAGC
CGCTGCTACTGTGGGCCGCCCGGGGAGGGTGGGCAGGGCTTTTGTGGGTTATGAGGAC
ACAGAAGTCCCTGAGGCCCCCAGACCTGGCTCAGCCAACCTCCTTCTCCCCCGGTTGCC
CCCCACTCTAAAGCCTCCTCCCTCCAGCGTCCACTGGCTCCAGGCTCCTCACAACAGCA
GCTCATAGACACGGGGCGTCTCCAGGTGGTCCCAGCCCTCCAGATGTTTCTAGCTCTCCA
GGTGGGCGCTGTTTTACGTCTGCCTGCATCCATTCACTTCTTCTTCTCACCTTTATC
CTGTTATCTCTATTTTTTTTAAAGCTACCAGGAAGGAAAGGGAAGAAGAGATCACGAACTG
GGACCCCCAGAAGGGAGGAGTGGGCTTTGAACTTAGACATCTACCTCAGAGCTCAAATAG
GTTGTTTAAATACATTCAATTTTTCAGATGAAGGGGAACCTTATAGTTTTTTTTTTTTT
TTTTTTTTTTTGGACAGAGTCTCACTGTGTTGCCAGGCTGGAGTGCAATGGCTTGATC
TTGGTTCACTGCAACCTCTGCCTCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGA
GTAGCTGGGACTAAAGGCGTGTGCCACCATGCCAGCTAATTCTTGTATTTTTTAGTAGAG
ACGGAGTTTCTCCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAGGTGATCTGACC
GCCTTGGCCTCCGAAAGTGCTGAGATTACAGTTGCGAGCCACTGTGCGTGGCCAGAACTT
TATAATAAGAGACTTGAAGCTGGGTGTGACGGTGACACCTCTAGTCCAGCTACTCGGG
AGGCCAAGACAGAAGGATCACCTTGAGGCCAGGAGTTTAAAGCCAGCCTGGGCAACATAG
CAAAACCTAGTCCCTAAAATTAAAAAAGGAAAATAAAGGAGACTT
GAAATTTTTGAACTAAATAGTGGTGATGGCTACACATTGTGAATGTAATTAACACCACTG
AGTTAAACACTTAAATAGTTAAATGGCAAATTGTATGTTATACCTATTTTACTACAAT
AAAAAGTATAAAAAAGAGAAGATATTTAGGTGACTTACAGCAACCAATTGCAACAAAACA
AAATGTTAAGAAATGATCTTTTTATGAGGCAATTGGAAATTTGAACACTGATCAACTATA
GGATGATTGGAATTATTAATTTTTTAAAGGTGTGATAAGATACTGCACTTGGCTGGGCACA
GTGGCACATGCCTGTAATCCCAGCTACTTGGCAGGCTGAGGTGGGAGAATCGCTTGAGCT
CAGGAGTTCGAGACCAGCCTGGGCAACGTGGCGAAATCCCCGTCTTTACAAAAACAAACA
AACAAACAAAAAAGATATTGCAGTTGTGTTGTAAGCGTCCTTATCTTTAGAGCTACATA
GTGGAATGTTTATGGAATATTTAGGATAAATGATATAGGCATTTGGGATTTGCTGCAAAA
TGACCCAGAGGCAGGGGTGAGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAG
GTAGAGGTAGCCACGAGCTGATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCAT
TATCCTGCATAGTCTATCTTTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAA
AGTAT

Gene 399. >ENST00000319405 cDNA sequence

AAAAGGAAGAGGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
CAGCGAGTGTCACCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTGGAAAAGGAAGATGGAGTGGTGG
GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCTGAGCCTGAG
GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATT
AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAAGCCGGGCGGCTTCCCCCTCCTGGCAATACCAACGCATTCATTTT
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAAAAC
ATCTTCCACTTCCCTGTATAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCCTTGG
TTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGG
CTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCACGAACCCGAGGGCCAGGAAGAACCGC
TCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCATGAACCTGAGG

FIGURE 1 (CONT'D)

GCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGGTTCCACTTCTTCTGT
TCCATGAGCTGCAGGGCTTGGGTTTCCCCAGAGGAGTTGGAGGAGATCCAGGCTTATGAC
CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCACCTTTCCTAGAGCTCCAGGGACCGG
GGAGGCCTGAGGTTCATCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTT
CAGCGGGAACCTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGAGGAACCATTT
GTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGT
TGTCTCTCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAGGAGTCTTGGAG
AAAAGTAAGAAACCAGGAGCGTTTCCAGTTCCACCCTTTCCTGCGGCACCACCACCCTTT
TTATATTGCTGAATTCACCTCCCTGGGGCGGAACCTGGAGGTCTGTTTCTTACGGAC
TTGCAGTCCAGGAGGATTTGAAGGCACAATGCAGGGGCTCAGATTGGGACAGAATCTTT
TGTGAAATATCAGTGCCACAGATTGTAACAGATAGCTTCATGCACACTCTGCATTTTATT
GGTTTGTATGGAATGTGCGCCATTGAATTATTATAGATTTATTTCAAATAGTTTGGA
AATTGTTGTACTTTTGAAACATGCTGTTCTGTAGTTTTTTGATGAGAGTTATAGTTGT
TATATATACATAAAGCTAATTTCTTTTCATTTTAAAGAGACAATTCTTTTTATCCTAAA
TATTTTATTATCTTTAAATTTGTTTCTGTATTATTACATGTGCTCCTGAAGCGAGCACTC
TTTTTATCTATGATACTTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCA
CCAGAAAAAACATAATTCTGGTGATAGAAATTTTATTTGCTGTTTAGGTTTGTGACTG
AATTGTGAGAATTGAGTTGTGATTTTTAACATGCCTCAGATATATATACTAACACGTCTA
ATATATACTATCTATTTTATTGGTTTATTTTGAAAAACATGGGTATAGAATTATTTAAAT
ATTATTTTATTTTATTTAAATATTTATTAATATATTTATTTATTTAAATATTATTACTTT
AAATATTATTTTAAATATTTTGGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAA
AGCTGTGTGATGGATATTATAACTGTTATATACACATACATATAATTTGTTTTCTTTT
TAAGAGAGGATTCTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTAC
ACGTGCTGCTGAAGGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACA
TTTATAGCTATGTAGTAGTTCCCTAAATCTTGTAAAAATAAATTTTTATTTG

Gene 400. >ENST00000312297 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAGATG
GAGTGGTGGGACGAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTC
CTGGCTATGGTCATAGCGTATCAGCCGGGCCGGCTTCCCTCCTGGCAATACCAACGCAT
TCATTTCTTCTGGCTCTGTG

Gene 401. >ENST00000323465 cDNA sequence

ATGAACGCCCCCTCCAGCCTTCGAGTCTGTTCTTGCTCTTCGAGGGCGAGAAGATCACCATT
AACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATGAACAAAGAAGACCACACA
CTGGGAAACATCATTAATCACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGCTAC
AAAGTCCCCCACCCTTGGAGCACAAGATCATCATCCGAGTGACAGACCAGCCGGACTAC
AGCCCCCAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGCGAGCTGTCCCTGCTG
GAGGAGCGCTTCCGGGTGAGGGCAGGGCCTGGAGGGGACAGCGGGGTGGGCTGGACACTG
GCCCCGTGTGCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTCAGGGAGAG
GCGGCGGTGATGGAAGAACAGGGACTTCCACCACAGGCTCCAGGACATGTGGACTGAGGG
GCTGTGGAGTCTGGGCCTGTGGCTCCCGTCTGCCCCATGGGACTTCTGTAGTGCTGCAGG
GTCCCTCGGGTGCTGTGGGCCAGATCCGGGCGGGACCTACTGTCTTTGGGGGTGCTCT
TCTACGTCCCTTGTGCGGTGATTGGCAAGGCCTGGTCTTCCAGGCCTCTGGGAGGCAGCT
CACCCCAGGGTGGCCACACCTGTTCTAGCAGGGCGCCTGGGAATCTAGAACAGTTTAG
AGGGGAAAGAGCCACAGCAAAGAAAAGCCGAGGCAGGGTGATCACGAGGTGAGGAGTTCA
AGACCAGCCTGGCAAACATGGTGAAGCCCTGTTTCTACTAAAAATACAAAAATTAGCTAG
GCATGGTGGCATGTGCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTG
AACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTAGGTA
ACAGAGCAGGACTCCATCTCAGTCAATCAATCAATCAATCAATCTCAGCGGTTGAACTAC
CCTTGACATGGTTGAGCTCTGTATCCACACCCAAATGTCATGTCAAATTGTAATTCCCAG
TGTTGTGGGAGGGACCTGGTGGGAGGTGATTGGCTCATGGGGGCCGACTTCCCCCTTGCT
GTTCTCGTGATATTGAGTGAGCGCTTGTGGGATCTGGTTGTTTAAAGCGTGACGCCCTC

FIGURE 1 (CONT'D)

CCACTTCACTCTCTCTGTCTCTCCTGCTCCAACATGGCCAGACGTGCCTGCTTCCCCCTTC
GCCTTCTGCCGTGATTGTCTAGTTTCTTGAGGCCTCCCCAGCCACGCTTCTGTACAGCCT
GCAGAACTGTGAGTCAATTAAACCTCTTTTCTTC

Gene 402. >ENST00000308103 cDNA sequence

GCAAAGCTACAGCACGTCTTTCCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCT
GCATGATAAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGG
TAACCGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGT
TTCCATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACT
TATCCTTAAACTTTTCTACCTTGAGTGCAGATAAGAACGATGGGTGGAAGAGAGCAACG
CCAGAGCCCAGGCGCCAGAGGACTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAG
CAAGCTCCACGACCACGCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCA
GCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGCACGTGCCA
CATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGGGTGAAACCAGGAGAGATTGCTTGC
TTCACCTTGTACAAGGCAGGAACGGTGGCATGGCGTGGGGGAAACTTGGAGTTGGAAGGTG
GCTAATCTTTGATTCTATGTTTTTGATCCTCCTGGCACTCCAGACCTGGGTGATATGCAG
GAGAGCACACTGATAGAAATCCTTGTGTCCAGTGGCCAGCAACTCCTGCCTCAGCCTCCC
GAGCAGCTGGGACTACAGGTGCCCCGCCACACGCCCCGGCTAACTTTTTTGTATTTTTAGT
AGAGACGGGTTTTACCGTGTAGCCAGGATGGTCTTGATCTCTTGACCTTGTGATCCAC
CTGCCTCATCATCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCAGCATGTTA
GACAATTTTTAATTCATCCTCTCTGTGCTGTTGTTTTCTCAGCTGTGAAAGGAATATTCT
GGTGGGGACAAGGTTACAGAGTTGCTGAGAGGGTCTCATGACATGAAGGTACTGGCCTTG
GCACAGTGCCTGGGGGGGCGGGGACTCCGCACATGCCTGTGATGTACAGTTACTGTGAG
TTCACAGCGAACCTTCCCTCCTTTTCTGTTGACTTTCCCACTCCTGTAACCATCCCT
CCCTCCCTTCTTCTCTCTCTCTCTCACTCACGCACACGCACACACACACACACAC
TCCATTCACTGTCTCCATGACTCTGGAGTAAACTAACGTCTCGAGTTGC

Gene 403. >ENST00000302215 cDNA sequence

GGAGGGCGAGTGGCGAGCAGGGGCCTCGGCCGCCACCCACACGCCCCGAAGCGTGCTCGT
CCCCCGCGCGGGCTCCCGGCCGCCGCCCTCGGCCATCGGCTGCTCCCCGGTGGCCAGG
CCTCGGACTCCGCGGCCGGCCCCGGCGCGGCCAGCGCCCTCAGGGATCATGGCCAGGTA
GCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCTCCTCCTCAGAGACCAGGATGGTGGTGACA
TTCCTCGTGTCTGCCCTCGAATCCATGTGTAAAGAACTGGCCAAGTCCAAGGCAGAAGTG
GCCTGCATCGCAGTGTACGAAACAGACGTGTTTGTGCTCGGAACCGAGAGAGGATGCGCT
TTTGTTAATGCCAGGACGGATTTTTCAGAAAGATTTTGCAAAATACTGCGTTGCAGAGGGA
CTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCGGGCGAAACG
GAAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTATGGTAAAGCCTTAGGG
ACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTCCGGCTGTGGTA
GTGCAGGGGCTTCCGGAAGGCGTTGCCTTTCAACACCCTGAGAATTACGACCTTGCAACC
CTGAAATGGATTTTGGAGAACAAAGCAGGGATTTTATTTCATCATATAATAGACCCTTCCTA
GGACCAGAGAGTCAGCTGGGTGGCCCTGGGATGGTAAACAGATGCGGAGAGATCCATAGTA
TCACCAAGTGAAAGCTGCGGCCCATCAATGTGAAAACCTGAACCCATGGAAGATTCTGGC
ATTTCACTGAAAGCAGAAGCTGTCTCAGTCAAGAAAGAATCAGAAGATCCTAATTACTAT
CAATATAATATGCAAGGAAGCCACCCTTCTTCCACAAGCAATGAAGTAATAGAAATGGAA
TTACCAATGGAAGATTCCACTCCGCTGGTCCCTTTCAGAAGAACCAATGAGGACCCTGAA
GCCGAGGTGAAAATCGAAGGAAACACAAATTTCATCCAGTGTACAAATTCTGCAGCAGGT
GTTGAAGATCTTAACATCGTTCAAGTGACTGTTCCAGATAATGAGAAGGAAAGATTATCA
AGCATTGAAAAGATTAAACAGCTAAGAGAACAAAGTTAATGACCTCTTTAGCCGAAAATTT
GGTGAAGCAATTGGCGTGGATTTCCCTGTGAAAGTTCCCTACAGGAAGATCACATTCAAC
CCTGGCTGTGTGGTGATTGATGGCATGCCCCGGGGGTGGTATTCAAGGCCCGGGCTAT
CTGGAATCAGTTCATGAGGAGGATCTTGGAGGCAGCTGAGTTTATCAAATTCACAGTC
ATCAGGCCGCTTCCAGGGCTTGAGCTCAGTAATGTGGGAAAACGCAAGATAGACCAGGAG
GGCCGTGTGTTTCAAGAAAAGTGGGAGAGAGCGTATTTCTTCTGGAAGTACAGAATATT
CCAACATGTCTCATATGCAAAACAAAGCATGTCTGTGTCCAAAGAATATAACCTAAGACGC
CACTATCAAACCAATCACAGCAAGCATTATGACCAGTATATGGAAAGAATGCGTGACGAG
AAGCTTCACGAGCTGAAAAAAGGGCTCAGGAAGTATCTCTTAGGCTTGTGAGACCCGAG

FIGURE 1 (CONT'D)

TGTCCCGAGCAAAAACAAGTGTGTTGCACACCCCAAGTCCAACCCAGAAATCCCCCGTGCAG
 CCTGTAGAGGACCTAGCTGGGAACCTTATGGGAGAAGTTACGTGAAAAAATCAGGTCTTTT
 GTGGCATATTCTATCGCAATCGATGAGATCACGGATATAAATAATACCACCCAGTTGGCC
 ATATTTCATCCGTGGTGTGATGAGAATTTTCGATGTGTCCGAAGAACTTCTGGACACGGTG
 CCCATGACGGGTACAAAATCTGGCAACGAGATCTTTTCGCGTGTGAGAAGAGCCTGAAA
 AAGTTCTGTATCGACTGGTCGAAATTAGTAAGCGTGGCCTCCACTGGCACCCAGCGATG
 GTGGATGCCAATAACGGGCTTGTCAAAAACCTGAAGTCCAGGGTGGCGACGTTCTGCAAG
 GGTGCGGAACCTGAAGTCCATCTGTTGTATAATTTCATCCGGAATCACTCTGTGCTCAGAAG
 TTGAAGATGGACCACGTATGGACGTGGTAGTGAAGTCCGTGAACCTGGATATGCTCCCGG
 GGAAGTGAACCAAGTGAAGTTCACAACCTTGCTCTATGAGCTGGACAGCCAGTATGGTAGC
 CTCCTGTACTACACGGAGATTAAGTGGCTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTC
 GAATCCTTGGAAGAAATCGACTCCTTCATGTATCCAGAGGGAAACCCCTGCCTCAACTG
 AGCTCCATAGATTGGATCCGAGACCTGGCCTTCTTGTTGACATGACGATGCATCTGAAC
 GCTTTGAACATCTCTCTCCAAGGACACTCCCAAATCGTCACGCAGATGTATGACCTGATC
 CGGGCGTTCTTAGCAAAAACCTGTGCCTCTGGGAGACTCATTTGACGAGGAATAATCTGGCC
 CACTTTCCACCCCTGAAATTGGCTTCCAGAAATGAAAGCGATGGCCTGAACTACATTCCC
 AAAATCGCGGAACCTCAAGACCGAATTCAGAAAAGGCTGTCTGATTTCAAACCTCTACGAA
 AGCGAACTGACTCTGTTTCAGCTCCCCGTTCTCCACGAAGATCGACAGTGTGCACGAGGAG
 CTCCAGATGGAGGTTATCGACCTGCAATGCAACACGGTCTGAAGACGAAATACGACAAG
 GTGGGAATACCAGAATTCTACAAGTACCTCTGGGGTAGCTACCCGAAATACAAGCACCAT
 TGCGCAAAGATTCTTTTCATGTTCTGGGAGCACCTACATCTGCGAACAGCTGTTCTCCATT
 ATGAAACTGAGCAAAAACAAAATACTGCTCCAGTTAAAGGATTCCAGTGGGATTCTGTA
 CTCCACATCGCAACGTGATGGAGAGAAAACCTCTGGCAGGGCCCTATGGTGGGAAAGGCT
 GGAGTCTTCTAGTCCCAAGGGATTGGGAGATGACAAAATGAATTTTTTTTTCTTTTTTGA
 GATGGAGTCTTGCTCTGTGCGCCAGGTTGGAGTGCAGTGGCGTGATCTCGGCTTACTGCA
 ACTTCCAGCTCCTGGGTTTCGAACGATTCTCCTGCCTCAGCCTCCCGAGCAGCTGGGACTA
 CAGGCGTGCGCCACCATGCCTGGCTAATTTTTGTATTAGTAGAGATGAGGTTTACCATG
 TTGGCCAGGCTGGTCTCCAACCTCTGACCTCAGGTGATCCACCTGCCTCGACCTCACAAA
 GTGCTGGGATTACAGGCATGAACCACTGTGCCCAGCTGACAAAATGAGTTCTTAAACTTT
 TTTTTTTTTTCAGTTTTTTTTTCCACTTTGAATCAGAAATATAATCTGCAGTATCATACTTG
 TTTATATTACATTGTGTGCCTCACTATTCAATAAAAATCAAGAAAGTTTTATTGT

Gene 404. >ENST00000318547 cDNA sequence

GAGAGCTGAGAGCTGGAGGTGAGCTGGGCTCGCGGTGCGCCCTCTCGCGCGCCCTCTTTG
 AGAACCACGGCTTCCAACCTCCCTGGAAATGGGGGGAACATGGCCGAGGCGCGTGGCGAG
 GTCACCTCGTGGAGGCCCCGGAGCGGCATCCTCAGCGCCCCAGCGATCCGGTGCCCATTA
 GATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCAT
 CAGATTTGCTCTGGGCCGGTAGTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAA
 AACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGAT
 CTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATG
 ATGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATC
 ACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCG
 TGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGA
 AGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTCTTTGAGGGCTCCC
 CAGCCATGCTTCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCT
 GCTCCTTGGAGGACAACGTGATCACTGTATTGAGCTCTGTCAAGAATGGTCCAGGTTCTT
 CTAGATGA

Gene 405. >ENST00000318568 cDNA sequence

GCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTA
 GTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAAAACAGTCTGGATGCTGGTGCC
 ACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAAT
 GGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTACCATTTCTACCTGCC
 ACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGA
 AAACCCCTACCCACCCACAGACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACC
 TGTCTAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTC

FIGURE 1 (CONT'D)

TGCCGTGTCA GTTCCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAAAC

Gene 406. >ENST00000333385 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCCATCCA
CCTCACCCGCAGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCACGAAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTCAATTAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCGGCCTCCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGATGAG
GCCCCCAAACAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
CTCCGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTCAAGCAACTTTAT
TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGGAACCAATTTGTGCAGATCATCTAG
AAGAACCTGGACCATTCTTGACAGAGCTGAATACAGTGATCACGTTGTCTCCAAGGAGC
AGGGGTGGGGTGGGGTACTTCTAGGAGTCTTGAGAGAAAGTAAGAAACAGGAGTGT
CCAGTTCCACCTTTCTGCGGCACCACTCCCTTTTATATTGCTGAATGCCAACCTCC
CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGAAGTGGTTGCCACAGTCCAGGAGCAT
TTGAAGGCACAGTGCAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGGTGGAAATGT
TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
AACATGCTGTTTCTGTAGAGTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
TAATTTTCTTTTCAATTTTAAAGTGAGAATTCTTTTATCCTAAATCTTTTATTATCTTTA
AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTATCTATGATAC
TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
TTCTGGTGATAGAAATTTTATTTGCTGTTTAGGTTTGTGACTGAATTGTGAGAATTGAG
TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTATT
TTATTGGTTTTATTTTGAAGAACATGGGTATAGAATTATTTAAATATTATTTTATTATTG
AAATATTTATTAAATATGTTTATTTTAAATATTATTATTACTTTAAATATTATTTTA
AATATTTTGGAAATACTGGTATTTTGAATAGATGCTGTTTCTACAAAGCTGTGTGATGG
GTGTTATAACTGTTGTATACACATACATATAATTTTGTTCCTTTTAAAGAGAGGATTC
TTTTCATCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAA
GGGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATG
TGGTAGTTCCCTAAATCTTGTAAAAATAAATTTTTATTG

Gene 407. >ENST00000328350 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGG
GAATGTTTGGATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCTGAGCCTGAGGAG
ACCTGGGTGGCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTG
CTCGTGCTCCCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATAAA
AGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTC
ATAGCGTATCAGCCGGGCGGCCTCCCCTCCTGGCAATACCAACGCATTCAATTTCTTCT
GGCTCTGTG

Gene 408. >ENST00000332301 cDNA sequence

ATGGAACCTCACATCCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAACGAGAGTATA
CCGCTGTTACCTACGGCCTGATCAAACCTTGCCCTTCTGTCTTCCAAGACCAGGTGCAAG
TTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGATTC
CTAGAGCTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCCCTGAAC
GTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCCAGCCCATCGGCGTGACCAAGATCGCC
AAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTCATGCTGTCCACGTAT
CAGACAGACTTCATCCTGGTGCGCGAGCGGGACCTGCCCTTTGTCAACCCACACATTGTCA
TCAGAGTTCAACATCCTGCGGGTGTCAATGGCGAGACCGTGGCAGCCGAGAACCCTCGGC
ATCACCATGGCTTCGTGAAGCCCAAGCTGGTCCAGAGGCCAGTCATCCACCCACTGTCC

FIGURE 1 (CONT'D)

AGCCCGAGCAACAGGTTCTGTGTCAACCAGCCTGGACCCTGACACGCTGCCTGCTGTTGCC
 ACACTCCTCATGGATGTCATGTTCTACTCCAATGGAGTGAAGGACCCCATGGCCACTGGG
 GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
 GTGATGGACGTGCAGACGCAGCAGAGGTTTCTAGTAACTTGCTGTTTACAAGCGCATCC
 GGAGAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCCTGGGGTTTGATGAGTGTGGC
 ATCGTGGCCCAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCCAGCCTACTACATCAGT
 ACTTTCAAGTTTGATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTATCAGTGCC
 CTGAAGGTCAGCCAAGCAGAGAAGCACTAG

Gene 409. >ENST00000330313 cDNA sequence

ATGAGCCGCGGTGGACCGGGCGGGCGGACGATGGAATCCACATCCTGGAGCACCGGC
 TGCAAGTTGCCAGCGTCGCCAACGAGAGTATACCGCTGTTCACTGGCCTGATCAAACCTT
 GCCTTCCTGTCTCCAAGACCAGGTGCAAGTTCTTCAGTCTGACTGAGACGCCAGAGGAT
 TACACTATCATTGTGATGAGGAAGGATTCTAGAGCTGCCCTCCTCGGAGCACCTGAGT
 GTGGCAGATGCCACCTGGCTGGCCCTGAACGTGGTGTCCGGCGGTGGCAGCTTCTCCAGC
 TCCCAGCCCATCGGCGTGACCAAGATCGCCAAGTCAGTCATCGCCCCACTGGCTGACCAG
 AACATATCCGTGTTTATGCTGTCCACGTATCAGACAGACTTCATCCTGGTGCAGCGAGCGG
 GACCTGCCCTTTTGTACCCACACATTGTATCAGAGTTCACCATCCTG

Gene 410. >ENST00000249269 cDNA sequence

TTCTAGCAGAAATGGCGGCTGCGGCGGCTCGAGTGGTGTGTCATCCGCGGCGCGGCGGC
 GGCTCTGGGGTTTTCAGCGAGAGTCTTCTAATCCGAGGCGCTGCGGGACGGTCATTATATT
 TTGGAGAGAACAGATTAAAGAGTACACAGGCTGCTACCCAAGTTGTTCTGAATGTTCTCTG
 AAACAAGAGTAACATGTTTAAAGAGTGGACTCAGAGTAGCTTCGGAAGACTCTGGGCTCT
 CAACATGCACAGTTGGACTCTGGATTGATGCTGGAAGTAGATACGAAAATGAGAAGAACA
 ATGGAACAGCACACTTTCTGGAGCATATGGCTTTCAAGGCAAGTTGGAGTTTGCATAATT
 TGTTTTTCTCTTTTATTTTCAAGGGCACCAAGAAGAGATCCCAGTTAGATCTGGAACCTTG
 AGATTGAAAATATGGGTGCTCATCTCAATGCCTATACCTCCAGAGAGCAGACTGTATACT
 ATGCCAAAGCATTCTCTAAAGACTTGCCAAGAGCTGTAGAAATTCTTGCTGATATAATAC
 AAAACAGCACATTGGGAGAAGCAGAGATTGAACGTGAGCGTGGAGTAATCCTTAGAGAGA
 TGCAGGAAGTTGAAACCAATTTACAAGAAGTTGTTTTTGATTATCTTCATGCCACAGCTT
 ATCAAAATACTGCACTTGGACGGACAATTTTGGGACCAACTGAAAATATCAAATCTATAA
 GTCGTAAGGACTTAGTGGATTATATAACCACACATTATAAGGGGCCAAGAATAGTGCTTG
 CTGCTGCTGGAGGTGTTTTCCCATGATGAATTGCTTGACTTAGCAAAGTTTCATTTCCGTG
 ACTCTTTATGCACACACAAAGGAGAAATACCAGCTCTGCCTCCCTGCAAATTCACAGGAA
 GTGAGATTTCGTGTGAGGGATGACAAGATGCCTTTGGCGCACCTTGCAATAGCTGTTGAAG
 CTGTTGGTTGGGCACATCCAGATACAATCTGTCTCATGGTTGCAACACGCTGATTGGCA
 ACTGGGATCGCTCTTTTGGGGGAGGAATGAATTTATCTAGCAAGCTGGCCCAGCTCACTT
 GTCATGGCAATCTTTGCCATAGCTTTTCAGTCTTTCAACACTTCCTACACAGATACAGGAT
 TATGGGGACTGTATATGGTTTGTGAATCATCCACTGTTGCAGACATGCTACATGTTGTTT
 AAAAGAATGGATGCGACTCTGTACAAGTGTACAGAAAGTGAGGTTGCACGAGCCAGAA
 ATCTTCTGAAAACAAAATGTTGTTGCAGCTTGATGGTTCAACTCCAATTTGTGAAGATA
 TTGGTAGGCAAATGTTATGCTATAATAGAAGGATTCCCATCCCTGAGCTTGAAGCAAGAA
 TTGATGCTGTGAATGCTGAGACAATTCGAGAAGTATGTACCAATACATTTATAATAGGA
 GTCCAGCTATTGCTGCTGTTGGTCCCATTAAAGCAACTACCAGATTTTAAACAGATACGCA
 GTAACATGTGTTGGCTTCGTGATTAAAATGCTCCTAATCAAGATTGTTTGAACACATGTA
 TTTATAAAACAGAGCTAGAGAAAAATAAAAATGAACATGTATATACATTTGGAAATTTGA
 ATTAAATACTGTATCATACTTTCAAAGGATAAAAAGACTACCCCTCTGAAGGTTGTTTTG
 TATTAATGGTCAGTCTTTGTTCTCTGAGAAATTATGTTGGAAGCAGCATACTTTCAAATT
 ATTACCATGAGTATAATTTTAAAGAATGAAAATGTTTACAGTATTTTTCAGTTTTATTATAA
 AAATGCACACAAA

Gene 411. >ENST00000257741 cDNA sequence

ATGGCAAAAATCTCCAGCCCTACAGAGACTGAGCGGTGCATTGAGTCCCTGATTGCTGTT
 TTCCAGAAGTATGCTGGAAAGGATGGTTACAACCGCAATCTCTCCAAGACGGAGTTCCTA
 AGCTTCATGAATACAGAGCTGGCTGCCTTTACAAAGAACGAGAAGGACCCCGGTGTCCTT
 GACCACATGAAGAACTGGATGTCAGCAGTGATGGGCAGTTAGATTTCCCAAATTTCTT

FIGURE 1 (CONT'D)

AATCTGATTGGTGGCCTAGCTGTGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCCTCC
CAGAAGTAG

Gene 412. >ENST00000292644 cDNA sequence

GAAGACACCACCGGAAGCAAGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGG
AGCTGCTAAAATGCCGGATTACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAA
GGACGACAAGCCCATCCGAGCTCTGGATGAGGGGGATATTGCCTTGTTGAAAACCTTATGG
TCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTGAGCAACTTCTCAA
GAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACT
CTGGGATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAG
GTGTACAAAGATAATCAATGCTGATTGCGAGGACCCAAAATACATTATCAACGTAAAGCA
GTTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAGGTGGCACCTACTGACATTGAAGAAGG
GATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTGCCTCCTAAGAT
TGACCCAAAGATTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGT
TGGTGGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCATTACTTCA
TCCAGAGAGGTTTGTGAACCTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCC
ACCCGGTACAGGCAAGACACTCTGTGCGCGGGCAGTTGCTAATCGGACTGATGCGTGCTT
CATTGAGTTATTGGATCTGAGCTTGTACAGAAATACGTGCGTGAGGGGGCTCGAATGGT
TCGTGAACTCTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAAT
TGATGCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAG
AACAATGTTGGAAGTATCAATCAGCTTGATGGTTTTGATCCTAGAGGCAATATTAAAGT
GCTGATGGCCACTAACAGACCTGATACTTTGGATCCAGCACTGATGAGGCCAGGGAGATT
GGATAGAAAAATTGAATTTAGCTTGGCCGATCTAGAGGGTGGGACCCACATATTTAAGAT
TCACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTG
TCCAAATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCAT
CAGAGCACGGCGAAAAATTGCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCAT
TAAGTCTTATGCCAAATTGAGTGCTACTCCTCGTTACATGACATACAACTGAACCCTGAA
GGCTTTCAAGTGAAAACTTTAAATTGGAATCCTAACCTTATATAGACTTGTTAATAACCA
ATTCTATAAACAAATAAATGGCTTCAAATTTGTATGCTTTTTTCCATATCTCTTCTGTAA
TATAATAAAGGTGATTTCTAATGTT

Gene 413. >ENST00000249270 cDNA sequence

ATGCTGCTTCTGCCAAGCGCCGCGGACGGCCGGGGCACCGCCATCACCCACGCTCTGACC
TCTGCCTCTACACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTAAAG
AGGAGAAACAGAAATGCTTCTGCCTCTTTTTCAGGAACTGGAGGATAAGAAAGAGTTATCC
GAGGAATCAGAAGATGAAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAAACACTTGAT
CCCAAAGACTGGAAGAACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATAC
AAGGCTACACAGAGACAGATCAAAGCAGCTCATAAAGCAATGGTTTTAAACATCACCCA
GACAAACGGAAAGCAGCTGGTGAACCAATAAAAGAAGGAGATAATGACTACTTCACTTGC
ATAACTAAAGCTTATGAAATGTTATCTGATCCAGTGAAAAGACGAGCATTTAACAGTGTA
GATCCTACTTTTGATAACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTTCGAA
GTGTTTACCCAGTGTTTGAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCCCTAAA
CTTGGTGATATGAATTCATCATTTTGAAGATGTAGATATATTTTATTCTTTCTGGTATAAT
TTTGATTCTTGGAGAGAATTTTCTTATTTAGATGAAGAAGAAAAAGAAAAAGCAGAATGT
CGTGATGAGAGGAGATGGATTGAAAAGCAGAACAGAGCAACAAGAGCACAAAGAAAAAAA
GAAGAAATGAACAGAATAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATA
AAAAAGTTCAAGGAAGAAGAAAAAGCCAAGAAAGAACAGAAAAGAAAGCAAAAGCAGAA
GCTAAACGGAAGGAGCAAGAAGCTAAAGAAAAAACAAGACAAGCTGAATTAGAAGCTGCT
CGGTTAGCTAAGGAGAAAGAAGAGGAGGAAGTCAGACAGCAAGCATTGCTGGCAAAGAAG
GAAAAAGATATCCAGAAAAAGCCATTAAAGAAGGAAAGGCAAAAACTTCGAAACTCATGC
AAGATAGAAGAAATAAATGAGCAAATCAGAAAAAGAGAAAGAGGAAAGCTGAGGCTCGTATG
CGACAAGCATCTAAGAACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAAT
TGGTCAGAAGATGATCTACAATTACTAATTAAAGCTGTGAATCTGTTCCCTGCTGGAACA
AATTCAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTTCTCTGGAGTCAAA
AGAAGTCCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCCAAAACTTGACCCCTCATCAA
AAAGATGACATAAATAAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCT

FIGURE 1 (CONT'D)

CAAGCAGACAACGCAACGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCT
TGGACAACAGAAGAACAGAAGCTTTTGGAAACAAGCTTTGAAAACATACCCAGTAAATACA
CCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAAGGACTGCATG
AAACGATACAAGGAACCTTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTG
CTGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTTATAATAAA
ACTGAAAATACTGT

Gene 414. >ENST00000222539 cDNA sequence

AAAGCAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGAAAGAAGAGGAGGA
AGTCAGACAGCAAGCATTGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAGCCATTAA
GAAGGAAAGGCAAAACTTCGAAACTCATGCAAGACCTGGAATCATTTTTCTGATAATGA
GGCAGAGCGGGTTAAAATGATGGAAGAAGTGGAAAACTTTGTGATCGGCTTGAAGTGGC
AAGCTTACAGTGCTTGAATGAAACACTCACATCATGCACAAAAGAAGTAGGAAAGGCTGC
TTTGGAAAAACAGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGA
GGCTCGTATGCGACAAGCATCTAAGAACACAGAGAAATCAACTGGTGGAGGTGGAAATGG
AAGTAAAAATTGGTCAGAAGATGATCTACAATTACTAATTAAAGCTGTGAATCTGTTCCC
TGCTGGAAACAAATTCAAGATGGGAAGTTATTGGCTAATTACATGAACATACATTCTTCCTC
TGGAGTCAAAAGAACTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCCAAAACTTGA
CCCTCATCAAAAAGATGACATAAATAAAAAGGCATTTGATAAGTTCAAAAAGAACATGG
AGTGGTACCTCAAGCAGACAACGCAACGCCTTCAGAACGATTTGAAGGTCCATATACAGA
CTTCACCCCTTGGACAACAGAAGAACAGAAGCTTTTGGAAACAAGCTTTGAAAACATACCC
AGTAAATACACCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAA
GGACTGCATGAAACGATACAAGGAACCTTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCA
AGAACAAGTGCTGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTT
TTATAATAAAACTGAAAATACTGT

Gene 415. >ENST00000320297 cDNA sequence

ATGAAGAAACAAGGAGTAAGCCCAAGCCGCTGCAATCTTCCCGCCCCAGCCCGTCTAAG
CGGCCCTGCGGGGCCTCCCCCGCCGGGAGCGGGAGGTGGAAAAGTCGGCCCTAGGCGGC
GGGAAACTGCCGGGGGGCGCCAGGAGGTCTCCCCGGGGAGGATCCCAAATCTGAAAAAG
CGAAAAGGCTTGGAGCTAAAGGTGGTGGCCAAGGCCCTTCTCGGCCCTTCCAGTTCTGTC
TGTAATTCCTGGCGCAGCTCCGGGAAGAGGTGCACGAACTGCAGGCGCGGTGGTTCCCC
AGCAGAACCCTCTGCATCGCCGTCTTTGTGGCAATTCTACATTGGTAAGATGTAGT

Gene 416. >ENST00000306389 cDNA sequence

GTATACTCTATTTTTTTTTTTTTTACAGTGGTACTGAACTGGGAGGTCTTATTACAGTA
CTGTGCTTCTTTTTCAACCATGGAGAGGCCACCTGTGTGATGTGGACACCACCTCTCCGT
GAAAGTTTTTCCTATCCTTTCTTGTACTTCAGATGTATGTTTTAACTTTGATTCTCAGG
ACCTCAAGCAATGATAGAAGGCCCTTCATTGCACTCTGTCTTTCCAATGTTGCTTTTATG
CTTCCCTGGCAATTTGCTCAGTTTATACTTTTTACACAGATAGCATCATTATTTCCCATG
TATGTTGTGGGATACATTGAACCAAGCAAATTTGAGAAGATCATTTATATGAACATGATT
TCAGTTACCCCTAGTTTCATTTTGATGTTTGGAAATTCAATGTACTTATCTTCTTATTAT
TCTTCATCTTTGTTAATGACATGGGCAATAATTCTAAAGAGAAATGAAATTCAAAACTG
GGAGTATCTAACTCAACTGCTGGCTAATTCAAGGTAGTGCCTGGTGGTGTGGAACAATC
ATTTTGAATTTCTGACATCTAAAATCTTAGGCGTTTCAGACCATATTTGCCTGAGTGAT
CTTATAGCAGCCGGAATCTTAAGGTATACAGATTTTGATACTTTAAAATACACCTGTTCT
CCCGAATTTGACTTCATGGAAAAAGCGACTCTGCTGATATACACAAAGACATTATTGCTT
CCAGTTGTTATGGTGATTACATGTTTATCTTTAAAAGACTGTTGGTGATATTTGCGGT
GTTTTAGCTACAAACGTTTATCTAAGAAAACAGCTCCTTGAACACAGTGAGCTGGCTTTT
CACACATTGCAGTTGTTAGCATTTACTGCCCTTGCCATTTTAATTTTGAGGCTAAAGCTG
TTTTTGACACAGCACATGTGTGTTATGGCTTCCTTGATATGCTCTTGACGGCTCTTTGGC
TGGCTTTTTGCGCAGAGTTCGAGAGAGAATGTTATCTTTGGCATTCTAACAGTGATGTCA
ATACAAGGTTATGCAAACCTCTGTAATCAATGGAGCATAACAGGAGAATTTAATGATTTG
CCTCAGGAAGAACTTTACAGTGGATCAAATACAATACCGTACCAGATGCTGTCTTTGCA
GGTGCCATGCCTACAATGGCAAGTGTCAAGCTGTCTACACTTCATCCCATTGTGAATCAT
CCACATTACGAAGATGCAGACTTGAGGGCTTGGACAAAAATAGTTTATTCTACATATAGT
GGAAATCTGCCAAAGAAGTAAGAGATAAATTGTTGGAGTTACATGTGAATTATTATGTT

FIGURE 1 (CONT'D)

TTAGAAGAGGCATGGTGTGTTGTGAGAACTAAGCCTGGTTGCAGCATGCTTGAAATCTGG
GATGTGGAAGACCCCTTCCAATGCAGCTAACCTCCCTTATGTAGCGTCCTCCTTGAGCCG
AGATTGTGCCACTGCACTCCAGCCTGGGCGACAAATCAAGACCCCGTCTCCAAAAA
AAAAACAAAACCTTGATTGGGATCCAAAATCATACAACCTATACACTAAAATCAGTGAATAT
TACCTTATGTAAATTAAAAATTAGGAAATCAAAAGAAAAGCATACATATAAAAAACAGTT
TTTTCTAAGC

Gene 417. >ENST00000317716 cDNA sequence

AGTGTACACAGTCCTGGAGGAACTGAGTCCAGGAACCATCGTGGCCAATATCACAGCGGA
GGATCCTGATGATGAAGGTTTTCCAGCCACCTCCTCTACAGCATTACCACTGTTAGCAA
ATATTTTCATGATAAATCAGTTGACTGGTACAATCCAAGTGGCCAAAGGATAGACCGAGA
TGCAGGTGAATTGAGACAAAATCCCACCATTTCCTGGAAGTTCTAGTGAAGGACAGACC
ATATGGGGGTGAGGAGAATCGCATCCAGATAACCTTCATTGTGGAAGACGTCAACGACAA
TCCTGCCACATGCCAAAAGTTTACCTTCAGCATTATGGTGCCGAAAGAACAGCCAAGGG
GACGTTGCTTCTTGACCTAAACAAGTTCTGCTTTGATGATGACAGTGAGGCACCAAAACAA
CAGATTCAACTTCCACATGCCATCTGGAGTGGGGAGCGGCAGCAGATTTTTACAGGATCC
AGCTGGCTCTGGGAAGATTGTGCTGATTGGTGATCTAGACTACGAAAATCCAAGTAACCT
AGCAGCCGGCAATAAATATACGGTGATAATCCAGGTGCAGGATGTGGCCCCCTTACTA
TAAAAGCAAGTATCATTTTTGTTTTATTTTCATGATTATAACGTCTACGTTTATATCCTAAC
AAGCCAGAAAATGAGTTTCCTCTCATTTTTGATAGGCCATCCTATGTATTTGATGTGTC
AGAAAGAAGGCGCCAGGGTCACCTATCAGGTCTGAGGAAAACGTTTACTCTCCAT
CTGCATGGTACGTGCCGTTTGTTCATCACTTTGGGCTCCATATTGCTTCTGGGTCTCCTCG
TGTACCTGGTCGTCTATTGGCCAAAGCCATCCACAGACACTGCCCCTGCAAGACTGGGA
AGAACAAGGAACCTCTGTAAGTTGCCAAAACGAAGACTGCAGAGAGAGACGTCTGTGGTGG
AACTATCCAGATGAACACTATCTTTGATGGAGAAGCCATAGATCCAGGTGACCGGGGAA
ACATATGAATTCAACTCAAAAACCTGGAGCCAGAAAGTGGAAAGATCCACTAACCCAAATG
CCAAAATGGAAAGAGTCCAGCCACCAGGGAGCTGCCCCACGCAGAGTCACTGCTGGGGAA
GGGATGGGGTCACTGAGAAAGTGCCAACTGGGAAGAAGATGAGCTGAGTGGCAAAGCGTGG
GCTGAGGATGCTGGTCTGGGTTCCAGAAATGAGGGTGGCAAGCTGGGCAACCCAAAGAAC
AGAAATCCAGCCTTCATGAACAGGGCTTACCCCAAACACACCCAGGAAAGTAAACGGGG
TCTAAGGAGGGGCTGTCAATCACTGAGATGCTGCCTCACCCCTAAATTCTATGGGGATGG
TGTGGGCATGGTGTAGGGGGGAAAATGTGGGCTGAGGGGATTGAGACATCCAGGGTCAAA
CATGGGATGTTTTGACAAATTTTTTAAACAAATAGAAAGGGGTTTGATCACATAGTTGCGTG
TTCTGAAATGATACAGGAACATTTTCTATCAGATTTTCAAGACTACCTGTGCTTCTGATAA
GCAAGACTGTTAACTTTGGGGTGTGGAATTGTTGTGTTTCTTCTTTGCATTGACTGCTAG
GAAGCTCTATTCTGTTTACCATAGAAAGTTTGTAGGAATTCCTGACATAAATAGTGAAGA
CTATCCTTACATCTGGTTTCCACCTTATTTTTCTGCCCCTCGTTTTAACATCACCCAGATT
TCTTCAGTTATAAATATGCCATACACCTTTGTAAGTCACCTCAAATCTTCTTCAAAAGAA
GCAGAACAGTGAAAAAACAGATGAGTAAGTTAAGAGTTGGTCATCTGGAAAGAAGAAAA
CTCAGTAGGCACCTTCTTTTTGTTTTTTCTTGTGGTGTCCGGATCAGCATCCTGCATGTGA
GATTCATCCACGTTGTCTGTCTAGCAGTAGTTTCACTTCTCTTATGGTTATGTCTGGTT
TCATTCTATGATTATATCACAATTTATCTATTCTACACTTGGGTGGCAGCTGCTTCAGAT
TTTTTACTTTTTAAAAAATATACTTAAAGTGAACTACAGGCAGGGCATGATGGCTCATGC
CTGTAATGCCAGCACTTTGCCAAGGTGGGCAGATCACCTAAGGTGAGGAGTTCAAGATCA
GCCTGGCCTAGATGGCAAAACCTGTCTCTACTAAAAAATACAAAAATTAGCTTGGTGTG
GTGGTGGGCACATGTAATCCAGCTACTTGGGAGGCTGAGGTAGGGAGAACTGCTTAAAC
CTGAGAGGTGGAGGTTACAGTGAGTTGAGATTGTGCCACTGCACTCTAGCCTGGGTGACA
AAGCAAGACTCCATCTCAGAAAAAATAAAGTGAATTACAACACT

Gene 418. >ENST00000265755 cDNA sequence

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATG
GCTGGCAATCTTACTGGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTC
CTCTCCCCGCGCCGCCCGCCCTCCGCCGAGCCCGCGCGGGGGTGGGGGCCGCCGAGC
GCCAGCCCCCGGCCGCCGATTCCCCCCCCGCGCCCCCTCCCCGCGCCTCCCTCCCCGC
CCTCGCCGCGCCGCCGCTCCTCGCCTCCCTCTGCCTCTCCTTCCCCCATTTCTCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCCGGGGCGCCGCT

FIGURE 1 (CONT'D)

GGCAGGAGCGCTTGGGGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGAC
 GTCCCCACCAACGGCTGCGGACCCGACCGCTGGAACCTCCGCGTTACCCGCAAAGACGAG
 ATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCGCTGTCCAACTGAAC
 GCCGAGGTGGCCTGTGTGCGCGTGACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
 GGGAGAATGTTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGA
 GGGCCCCCGTGGAAGGATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGGCGAGGGT
 GGAGGCCGTAGCCTCCCTCGGTCTCCCTGGAACATGGCTCAGATGTGTACCTTCTGCGG
 AAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTGGGAAGGGCCAGTGTG
 GTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
 CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATC
 CTGGAACACAGCCACCGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGG
 GACTCGAAGGCCCTGGTGGAGCTGAACGGTGTCTCCCTGATTCCAAGGGGTACCGGGAC
 TGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTGCCCCCAACCGCCACC
 TCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACCACGCCATCCGAGAG
 CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCC
 ATGCCAGAGCCCCAAGGCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCC
 ACTGGGCCTGGTGGGCCTCTCATCCAGAACGTCCATGCCTCCAAGCGCATTCTCTTCTCC
 ATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAAACCGAGGACATCAAC
 ACGCTCCGGGAGTGTGTGAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
 GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATC
 GTGGGCATCCCGGACAAGATCCCCTTCAAGCGCCCCTGCACTTATGGAGTCCCCAAGCTG
 AAGCGGATCCTGGAGGAGCGCCATAGTATCCACTTCATCATTAAAGAGGATGTTTGATGAG
 CGAATTTTTCACAGGGAAACAAGTTTACCAAAGACACCACGAAGCTGGAGCCAGCCAGCCCG
 CCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
 CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGC
 GGGCTGAGGCCGATCAAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCA
 GACCCCTCGCCAACCTCTGAGGAAATGACAGACTCGATGCCTGGGCACCTGCCATCGGAG
 GATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGTGAGGACGCGCGGGCCC
 GAGGAGAGGCCCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
 GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTG
 CCGTACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGC
 ATCTCCCTCCGCAGGCCCAACTGCTTCGGGATCGCCAAGCTCCGGAAGATTCTGGAGGCC
 AGCAACAGCATCCAGTTTGTCTCATCAAGAGGCCCGAGCTGCTCACTGAGGGAGTCAAAGAG
 CCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCCC
 CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAA
 GAAAATTATGACGCGAGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTC
 CAGGACCTTTTCAATAAGAAATACGGGGAAGCCTTGGGCATCAAGTACCCGGTCCAGGTC
 CCCTACAAGCGGATCAAGAGTAACCCCGGTCCGTGATCATCGAGGGGCTGCCCCCAGGA
 ATCCCGTTCCGAAAGCCCTGTACCTTCGGCTCCCGAACCTGGAGAGGATTCTTGCTGTG
 GCTGACAAGATCAAGTTCACAGTCACCAGGCCTTTCCAAGGACTCATCCCAAAGCCTGAT
 GAAGATGACGCCAACAGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTC
 TTCAACGAGAAATACGGTGAGGCCCTGGGCCTGAACCGGCCGGTGTGCTGGTCCCTTATAAA
 CTAATCCGGGACAGCCAGACGCCGTGGAGGTACGGGTCTGCCTGATGACATCCCCTTC
 CGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
 GTCCGCATGGTCATCATTAAACAGCTCCAACCCTTTGCAGAAATCTGCAATGATGCCAAG
 GTGCCAGCCAAAGACAGCAGCATTCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAAT
 TCCGTCTCCTCTTCTCCTCGTCTTCTCCTCTCCTCGTCTCTAACC CGGATT CAGTGGCA
 TCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTGGACTATGCCGGCCTG
 AACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
 CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATG
 CCTTTTAGTTTTTCCAATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTT

Gene 419. >ENST00000257701 cDNA sequence

TTTCCCTTTATAGCACCATTGAATCCCAGTCCTAACAGAAGTACTGCGAATCTTGTGGCC
 TCATTCTGAACAAAAGGGATTAGAGAAGAAAAATCTCTTGATATAAGGCTTGAAAGCAAG

FIGURE 1 (CONT'D)

GGCAGGCAATCTTGGTTGTGAATATTTTTCTGATTTTTCCAGAAATCAAGCAGAAGATTGA
GCTGCTGATGTCACTTAACTCTGAGAAGTCGTCTCTTCAGAAAGGCCGGAGCCTCAACA
GAAAGCTCCTTTAGTTCTCTCTCTCCACCGCCACCACCACCACCACCGCCACCTTTGCC
AGACCCACACCCCCGGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGA
GGACCCTGCGGACTACTGCAAAGGTGGATATCATCCAGTGAAAATTGGAGACCTCTTCAA
TGGCCGGTATCATGTTATTAGAAAGCTTGGATGGGGGCACTTCTCTACTGTCTGGCTGTG
CTGGGATATGCAGGGGAAAAGATTTGTTGCAATGAAAGTTGTAAAAAGTGCCAGCATT
TACGGAGACAGCCTTGGATGAAATAAAATTGCTCAAATGTGTTGAGAAAGTGATCCCAG
TGACCCAAACAAAGACATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAA
TGGGATACATGTCTGCATGGTCTTGAAGTACTTGGCCACCATCTCTCAAGTGGATCAT
CAAATCCAATATCAAGGCCTCCAGTACGTTGTGTGAAGAGTATCATTGACAGGTCTCT
TCAAGGGTTAGATTACTTACACAGTAAGTGCAAGATCATTCACTGACATAAAGCCGGA
AAATATCTTGATGTGTGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGA
GTGGCAGAAAGCAGGTGCTCCTCTCTCTCAGGGTCTGCAGTGAGTACGGCTCCACAGCA
GAAACCTATAGGAAAAATATCTAAAAACAAAAGAAAAAACTGAAAAAGAAACAGAAGAG
GCAGGCTGAGTTATTGGAGAAGCGCCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGA
AAGGAAAATAATAGAAGAAAAACATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGA
ATACTGCCAGAGGTGAAACTAAAAACAACAGGATTAGAGGAGGCGGCTGAGGCAGAGAC
TGCAAAGGACAATGGTGAAGCTGAGGACCAGGAAGAGAAAGAAGATGCTGAGAAAGAAAA
CATTGAAAAAGATGAAGATGATGTAGATCAGGAACCTTGCGAACATAGACCCTACGTGGAT
AGAATCACCTAAACCAATGGCCATATTGAGAATGGCCATTCTCACTGGAGCAGCAACT
GGACGATGAAGATGATGATGAAGAAGACTGCCCAAATCCTGAGGAATATAATCTTGATGA
GCCAAATGCAGAAAGTGATTACACATATAGCAGCTCCTATGAACAATTCAATGGTGAATT
GCCAAATGGACGACATAAAATTTCCCGAGTCACAGTTCCAGAGTTTTCCACCTCGTTGTT
CTCTGGATCCTTAGAACCTGTGGCCTGCGGCTCTGTGCTTTCTGAGGGATCACCCTTAC
TGAGCAAGAGGAGAGCAGTCCATCCCATGACAGAAGCAGAACGGTTTTCAGCCTCCAGTAC
TGGGGATTTGCCAAAAGCAAAAACCCGGGCAGCTGACTTGTGGTGAATCCCCTGGATCC
GCGGAATGCAGATAAAATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTGGGTGCA
TAAACACTTCACGGAAGACATCCAGACGCGTCAGTACCGCTCCATAGAGGTTTTAATAGG
AGCGGGGTACAGCACCCCTGCGGACATCTGGAGCACGGCGTGTATGGCATTGAGCTGGC
AACGGGAGATTATTTGTTTGAACCACATTCTGGGGAAGACTATTCCAGAGACGAAGACCA
CATAGCCCACATCATAGAGCTGCTAGGCAGTATTCCAAGGCACCTTTGCTCTATCTGAAA
ATATTCTCGGGAATTCTTCAATCGCAGAGGAGAACTGCGACACATCACCAAGCTGAAGCC
CTGGAGCCTCTTTGATGTACTTGTGGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACA
GTTTACAGATTTCTTGATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGG
CGAATGCCTTCGGCATCCTTGGTTGAATTCTTAGCAAATTTCTACCAATATTGCATTCTGA
GCTAGCAAATGTTCCAGTACATTGGACCTAAACGGTGACTCTCATTCTTTAACAGGATT
ACAAGTGAGCTGGCTTCATCCTCAGACCTTTATTTTGCTTTGAGGTACTGTTGTTTGACA
TTTTGCTTTTTGTGCACTGTGATCCTGGGGAAGGGTAGTCTTTTGTCTTCAGCTAAGTAG
TTTACTGACCATTTTCTTCTGGAAACAATAACATGTCTCTAAGCATTGTTTCTTGTGTTG
TGTGACATTCAAATGTCAATTTTTTTGAATGAAAAATACTTTCCCCTTTGTGTTTTGGCAG
GTTTTGTAACTATTTATGAAGAAATATTTTAGCTGAGTACTATATAATTTACAATCTTAA
GAAATTATCAAGTTGGAACCAAGAAATAGCAAGGAAATGTACAATTTTATCTTCTGGCAA
AGGGACATCATTCTGTATTATAGTGTATGTAAATGCACCCTGTAAATGTTACTTTCCAT
TAAATATGGGAGGGGGACTCAAATTTAGAAAAGCTACCAAGTCTTGAGTGCTTTGTAGC
CTATGTTGCATGTAGCGGACTTTAACTGCTCCAAGGAGTTGTGCAAACTTTTCATTCCAT
AACAGTCTTTTCACATTGGATTTTAAACAAAGTGGCTCTGGGTATAAGATGTCATTCTC
TATATGGCACTTTAAAGGAAGAAAAGATATGTTTCTCATTCTAAAATATGCATTATAATT
TAGCAGTCCCATTTGTGATTTTGCATATTTTAAAGTACTTTTAAAGAAGAGCAATTTTC
CCTTTAAAAATGTGATGGCTCAGTACCATGTGATGTTGCCTCCTCTGGGCGCTGTAAGTT
AAGCTCTACATAGATTAAATTGGAGAAACGTGTTAATTGTGTGGAATGAAAAATACATA
TATTTTGGAAAAGCATGATCATGCTTGTCTAGAACACAAGGTATGGTATATACAATTTG
CAGTGCAGTGGGCAGAATACTTCTCACAGCTCAAAGATAACAGTGATCACATTCATTCCA
TAGGTAGCTTTACGTGTGGCTACAACAAATTTTACTAGCTTTTTTCATTGTCTTCCATGA

FIGURE 1 (CONT'D)

AACGAAGTTGAGAAAATGATTTTCCCTTTGCAGGTTGCACACAGTTTTGTTTATGCATTT
CCTTAAAATTAATTGTAGACTCCAGGATACAAACCATAGTAGGCAATACAATTTTAGAAT
GTAATATATAGAGGTATATTTAGCCTCTTTTAGAAGTCAGTGGATTGAATGTCTTTTAT
TTTAAATTTTACATTCATTAAGGTGCCTCGTTTTTGAAGTTGTCCATTAACATTTATCCA
TATGCCTTTGCAATAACTAGATTGTGAAAAGCTAACAAGTGTGTGAACAATAATCCATTG
TTTGAGGTGCTTGCAGTTGTCTTAAAAATTAAAGTGTTTTGGTTTTTTTTTTTCC

Gene 420. >ENST00000315965 cDNA sequence

ATGAAGAGGCGGCGGCGAC
TTTAGGGCAGAAGACGGGGCTGGGTTGGAGGCGCGGGAGGAGAAGGTGGTGTACTCGCGG
TCGCAACTGTCTGCTGGCTGACAGCACCAAGGCGCTGGGCGACGCCTTCAAGCTCTTCATG
CCCCGCAGCACGGAGTTTCATGAGCTCGGACGCGGAGCTCTGGAGCTTCTCTGCAGCCTC
AAGCACCAGTTTCTCCCGCACATCCTGCGCAGCAAGGACGTCTACGGCTACTCCTCCTGC
CGGGCCCTGGTACCCGACCCCCCGGGCCCCCTACAGCCCGCGGCCAGGCGCGCCGGCCG
GTTCCGCGCGCAGCGGCCAGGAGGAGGCGCCGCGGAGCCCGGGCGGCCGCTGCCCGCAGG
AGGAAGCCCCGGCGGCCACCCCCACCGCCGCGCGCCCCCGAGGAGAGCTGCCCGGCCAAG
CCCGTGGCCCCCGGGCCCTGCTTCGGGGGCCGCACCTTGGAGGAGATCTGGAGGGCGGCC
ACCCCGACGCTGACCACCTTCCCCACCATCCGCGTGGCAGCGACGTGTGGGGCGAGCGC
AGCCTGGCGGCAGCGCGGCGCAGGGCGCGCCAGGTCTGCGAGTGAACCTGGAACCCATG
GTGAGGCTCCGCGCTTCCCGGTGCCCCGGGCATGA

Gene 421. >ENST00000248550 cDNA sequence

GGAGTTTCTCTCTGTGGCCACCACCGCCCCAGGCCACAGCAAGTACTGCCTGGCTACTG
CCAGTGTTCACCTCAAGGACCAAGGGCTCTTCATTTCAGTGTGTTGATTGGAGCATATGATCA
ACAAATATGGGAAAAATCTGTTGAACAGAGAGAAATCAAGGGGCTAAGGAATAAACCAAA
GAAAACAGCACATGTGAAACCAGACCTCATAGATGTTGATCTTGTAAAGAGGGTCTGCATT
TGCAAAGGCAAAGCCTGAAAGTCCTTGGACTTCTCTGACCAGAAAGGGAATTGTTTCGAGT
TGTATTTTTCCCTTTTTCTTCCGGTGGTGGTTACAAGTAACATCAAAGGTCTCTTTTT
CTGGCTTCTTGTCTTTTATCTTCTTCAAGTTGCTGCAATAGTATTATTCTGCTCCACTTC
TAGCCACACAGCATACCTCTGACAGAGGTGATTGGGCCGATATGGCTGATGCTGCTCCT
GGGAAGTGTGCATTGCCAGATTGTTTCCACAAGAACACCCAAACCTCCTCTAAGTACAGG
GGGTAAAAGAAGAAGGAAATTAAGAAAAGCAGCCATTTGGAAGTACATAGGGAAGGAGA
TGGTTCTAGTACCACAGATAACACACAAGAGGGAGCAGTTCAGAACCACGGTACAAGCAC
CTCTCACAGCGTTGGCACTGTCTTCAGAGATCTCTGGCATGCTGCTTTCTTTTTATCAGG
ATCAAAGAAAGCAAAGAATTCAATTGATAAATCAACTGAAACTGACAATGGCTATGTATC
CCTTGATGGGAAGAAGACTGTTAAAGCGGTGAAGATGGAATACAAAACCATGAACCTCA
GTGTGAAACTATTTCGACCAGAAGAGACAGCCTGGAACACAGGAACACTGAGGAATGGTCC
TAGCAAAGATACCCAAAGGACAATAACAAATGTCTCTGATGAAGTCTCCAGTGAGGAAGG
TCCTGAAACAGGATACTCATTACGTGCTCATGTGGACAGGACTTCTGAAGGTGTTCTTCG
GAATAGAAAGTCACACCATTATAAGAAACATTACCCTAATGAGGACGCCCCATAATCGGG
TACTAGTTGCAGCTCTCGCTGTTCAAGTTCCAGACAGGATTCTGAGAGTGCAAGGCCAGA
ATCTGAAACAGAAGATGTGTTATGGGAAGACTTGTACATTGTGCAGAATGCCATTCATC
TTGTACCAGTGAGACAGATGTGGAAAATCATCAGATTAATCCATGTGTGAAAAAAGAATA
TAGAGATGACCCTTTTCATCAGAGTCATTTGCCCTGGCTCCATAGTTCCACCCAGGATT
AGAAAAATAAGTGCTATAGTATGGGAAGGTAATGATTGTAAGAAAGCAGACATGTCTGT
ACTTGAAATCAGTGGAATGATAATGAACAGAGTGAACAGCCATATACCAGGAATAGGATA
CCAGATTTTGGAAATGCAGTCTCTCTCATACTGGGTTTAACTCCATTTGTTTTCCGACT
TTCTCAAGCTACAGACTTGGAACTCACTCACAGCACATTCTGCTTCAGAACTTTATGTGAT
TGCATTTGGTTCTAATGAAGATGTCTAGTTCTTTCTATGGTTATAATAAGTTTTGTGGT
TCGCGTGTCTCTTGTGTGGATTTTCTTTTTTTTGTCTGTGTAGCAGAAAGAACTTATAA
ACAGCGATTACTTTTTGCAAACTCTTTGGACATTTAACATCTGCAAGGAGGGCTCGAAA
ATCTGAGGTTCTCATTTCGGGTTGAAGAAAGTACAGAATATAAAAATGTGGCTATCTCT
CCGTTCTATCTTAAGCGTCGAGGTCCTCAGCGATCAGTTGATGTAATAGTTTCATCTGC
TTTCTTATTGACTATCTCAGTTGTATTTATCTGTTGTGCCAGCTACTTCATGTACACGA
GATCTTCCTTGATTGTCACTACAATTGGGAATTGGTAATCTGGTGCATCTCGTTAACACT
TTTTCTCCTAAGATTTGTTACCTTGGATCAGAAACAAGTAAAAAATATAGTAATACCTC

FIGURE 1 (CONT'D)

AATATTACTTACTGAACAGATAAACCTCTACTTGAAAATGGAGAAAAACCTAACAAAA
GGAGGAAGTGAAGTGAATAATGTTTTAACTGGCTACTAACTGCTAAAGGAGTT
GGACAGTCCTTTTAGATTATATGGGCTTACAATGAATCCGCTGCTTTATAACATCACCCA
GGTTGTTATCCTGTGAGCTGTTTCTGGTGTATCAGTGACTTGCTTGGATTAAATTTAAA
GCTATGGAAGATTAAAGTCATGACAATTCAAAGAAAAGAAGATGTAGCCTCTTTTCCAGAA
TAAGAGTACTGACTAAGCTGCCTGAAAGCTTGTCACTGATTCTTTGCTTCAGGAGTCTCA
GCTAGGGAGTTGAAGTGTATACATCAGACTGTCTGTGCAATTCTTATATTTATTTTACT
GGTTCACCTTTTTTTTACATTTATTTTAGTCTTTATATTTTATTTTAAAGCATTGATGTA
CTTAGTTGTTGAAAGGGTGTATGAACTGATATCCAGATACTTGAGATCCTGGTAATTGGT
CATAAATAATTGGCAAAATAACAAATTGTGAAAATAGAAGCCATTGCTCAGCACCGTTTC
TCCATCAATGCCGTGAAGTGCCTTACTTGAGGAAAAATTCTTAACTTTGGAATATTGC
ATTGAACTCAGCTATACACATAAAACATTTTCTTTGGTAAATCAAGATCCAGTCAGGGTT
TCTCTTGAATTATTTTGAACAATGCCAGGATCCAACTGATTAAAGTTACAGTTAAGCA
CCCTTCAGTATTAATATATACGGTATTATATAACAGGTCAACAAGTGCTCTTTGATGATA
AACTTGTAAATAGAGCAATAATTGTAAATGGTTACCATACTGTAAGATATTTTGATAAAA
ATTAAGTAGTAATACTTGTATTTATTTGAAACACTGGGCTGTTTGCACAGCTCCAAGTGT
GCATGCTCAAAATGTGCACTTTTTTAAATTTGTTACTTTTAAATGCGTATCTTTATATGGGA
TCTGTTATAGTATACTAGGGCATGATATGGTATCCTTTTGAGTGAGGTATATACTCATCT
CACAAGTGAAGTGCCTACTGATATTACTAAAGTACATTATGTTTACTCAAGTAAATAATT
TTCTCCCCATGGTACACTCTAGTGTAGGCTATTATACACACTGAAATGAACAAGTGA
GAATAAGGCTAAGAACCAATAAAATATTTCTCTAATTGCTAGTTGTAAACTGTATCCAA
ATTTTCAGAAAAGACAGCTTCAGCTTGCAAATTCTATCCTCTAACTTATCTGGTGCATT
CTCCCCACCCACCCCATTTATATAAGGGCTATTTTAGATGCTTTTAACTCCCAACAA
ATAATTTGCCAAGTGTCCAATGAGAACTTATCATGTTGGTGTGTTAGGTAAATCGGGCAA
ATATGATAGTGTCTTACATTGGGCCTTGATTTTAAAGTTGTTATATTTGTACAATCGAGTA
TTTTAGAAATTACATGAAACATGAAACAGTTTTTGAATTTTTTTTAACTGGGCATCTG
GTTTTCTAAAAATTTATTTGAAACAATCTAGAATTTTCTTGGTGCAAAGTGTATCATGTGG
AATATCCTCATATTTTTTACCATATTTTAAAGAACTTTAAGACGATTAATTGTAAATAATTT
ATTTGATTGGTGCAGTTCTAATCCCTAAATCATAATCTTAAATCAGGAATGTGTGGAGA
ACAGAGCCATGTCATATCACTTTGCTCTTACCATTCTTTTTGATCAGCCTCAATTCAGCC
TCATTGTGTAGTATGTTTTTTCTTTCTATGAAAAACAACAGAAAGCATTTCATTTTATTT
GCCTATGTTCAAATATGTTTAAATAATGACCAAAGTGCATTCTGAGTTTTTTCAAGGAATG
TAATACTGGAGCTTTAAGAACATACTTAGTTTTCTCATGTGAAACTTAGGCTTTGTCTGA
TGTTTTTCTTCTCTATTGTCTAATGTTGAGGTTGTTTTTAGGAATTATGTTTTATAAA
CTTTTTCAATATAAGGTACATGCCTATACAGAACTTAACATTTTGCACAGAATATATCAA
ATATATTTTGAAGAAAAAGTACGGCATGAGTTCTGTTAGGAATAAAAGATGAACTATT
GTATCTCACAAAAATCTTATTTTCAAGATGGAATATTTTTGAGAAAAGTAGCTGAGTAT
ACTGGTTTAAAGAAATGCTTGTTTTAGATTGAGGTTAACTTAGAGTTGGGAGTTGATTTA
TTAAGTACAGTATACCTCTCAACAGTTTATAAATAATATGTTGAATTATGTCAAGTGTGGG
CAGCAGTAGAATACTAAAAGGAAAATGTGATGTTAAGCAATTTTCAAGACATTAAGTGAAC
TATTTTCAAAGCAGAAAAATTGACATTGCTGCCTTTAAGAATACCATGAATGTAAGAAAT
TGAAAGAAATTGTAAATATACATAATATAGAAATGGCAGTTCAAAGAGAATTGTGGCA
GATGTTGTGTGTGAACTGTTGTTTCTTTGCCACATGTGTTGTATTTGAAAGTTTTACAGT
AAGTTTAAATAAAACATTCTGTGACTG

Gene 422. >ENST00000223398 cDNA sequence

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCGGGCGCC
AGGAGGGGGTGCAGCCGGTGGGCAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCCGAGAGGAGGAGGCCGGGGCTCTCCGGGCCTCCCGCCGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCCACCTGCCCAGTGGCACCGCCATGCAGAAGCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGACATCTACTGGGTGAGCTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACAGTCATCTGGACCC
TCCTCCTCCCCGGCCGAGCTGCTGCCCCCGAGAAGCCGGGCCCCAAGGCGGCGGAAGTG

FIGURE 1 (CONT'D)

GGGGATGACTTCCTGGGGGACTTTGTGGTGGGCGAGCGGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGCAGTATCTGGGAGAGACGCAGTTCGCACCGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCCTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTCACGCGGCCCTCCAAGCTGACCCGGCAGCCACGGCC
GAGGGCTCGGGGAGTGATGCCCCACTCCGTGGAGTCGCTGACTGCCAGAACCTGTATTG
CATTCGGGCACGGCCACGCCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGCGTGTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCAGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCCCTTGGGAAGAATGATGGGGCGGTGGCGGGCACCAGTACTTCAG
TGCCACCCAAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCCA
TCTACCAGCCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCTCTCCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTTCGGCCAGCCGAGTGGCCTGCTCAGGAGACCTCTTCAGCTACGCCCAGCAAGATC
TCGGGCACCACGGCCTTGAGGAGGCACTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGCTGCTCGTGGAGAGCGTGCAGAAAGAGAAGGTGGACCTG
TCCAACCAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGCAGTTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGACCCAGACGCAGCTGGAGCACGCGCGCATTGGG
GAGCTGGAACAGAGCCTGCTACTGGAGAAGGCGCAGGCCGAGCGGCTGCTCCGAGAATTA
GCGGACAACAGGCTGACCACAGTGGCCGAGAAGTCGCGCGTGTGCTGAGCTGGAGGAGGAG
CTCACCTGCGCCGAGGTGAAATCGAGGAGCTCCAGCAGTGCCTGTTGCACTCGGGTCCC
CCACCTCCGGACCAACCAGACGCGCCGAGATCCTGCGGCTACGGGAGCGGCTGCTCTCG
GCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGTGTCGGGATAAATACGAGAAGGCCCTG
AAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGCACAGGAG
GTGGCGGGCCTGAAGGACAAGGTTGAGCAGGCCACCAGCGAGAACATGGGGCTAATGGAC
AACTGGAAATCCAAGCTGGACTCGCTGGCCTCGGACCACCAGAAGTCCCTGGAGGACCTC
AAAGCCACCCTGAACTCGGGCCAGGCGCCAGCAGAAGGAGATCGGCGAGCTGAAGGCA
GTGATGGAGGGCATCAAGATGGAGCACCAGCTGGAGCTGGGTAACCTTGAGGCCAAGCAT
GACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGAGAGAAGCTGCAGGAG
GCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAGCTGGAGGTGCAAGCC
AGCCAGCACCGGCTGGAGCTGCAGGAGGCCAGGACCAGCGCCGGGATGCCGAGCTGCGT
GTGCACGAGCTGGAAAACTGGACGTGGAGTACCGGGGCCAGGCGCAGGCTATCGAGTTC
CTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTACGAGCGGCTGCAGCGG
GCAGAAGCCCAGGGCAAAAGAGGTCGAGAGTTTGGCGGAGAAGCTCCTGGTGGCTGAG
AACAGACTCCAGGCGGTGAGGCCCCTGTGCTCCTCCAGCACACCCACATGATTGAGTCG
AATGACATTTTCAGAGGAGACGATCAGGACGAAGGAACTGTGGAGGGCCTGCAGGACAAG
CTGAACAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCAGACCGAGATGCTCAGGGCC
CAAGTAAGTGCGCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAGGTGGACGCCCTCCTG
AAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCCGGAAGACCCATGACGCC
TCGGGCCAGCTAGTCTCATCAGCCAGGAGCTGCTGCGGAAGGAGCGGAGCCTGAACGAA
CTGCGGGTGTGTGCTGCTGGAGGCCAATCGTCACTCCCCAGGGCCGGAGAGGGACCTGAGC
CGTGAGGTACACAAGGCTGAGTGGCGGATCAAGGAGCAGAACTCAAGGATGACATCCGG
GGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTGTGCGATCAGAGGCGC
TACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTGCAGCACCAGCTGATG
AGCACGGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAGGTGGAGAAGCTGATG
GAGGCCATGAGGAGCTGCCCTGACAAGGCCAGACCATCGGCAATTCCGGTTCTGCAAAC
GGCATCCACCAGCAGGACAAAGCTCAGAAACAAGAGGACAAGCACTGATCCTGAGGGGAT
ACTGTGGAGCAGCCAGTCCACACCAGAGCCCCACGCGGCTGCCCGGCAGTACCTCCTCC
AGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTGTTGTAACAATAACGTACTC
ACCGCCGCGGACAATCCCCACCCGATCCCTCGCCAGACCAGGACGCTTCTCAAGCCC
AGCCTTCTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCGGGGACCTTCAGCCTG
GACACCCGGCAGCTTCTGGAGTTTGTGAGTGGAGGCAGAGGGGATCCGGCCAGGCCCCCTC

FIGURE 1 (CONT'D)

TGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCTCTTTTTCCGCCCAT
TCTCCCTCGGGTCTCCCCAGAGGGGCCGGCGGGGGCTGGGGAGGGGGTAAGTTTATCCAT
GCAGACACCAAGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGGGGCCCTTTTCCGAAG
CCACTTCCAGGCCAAGGCAGTCGCCAGGGCTTCTTGTCCCCACCTTCTGAACCTTCTTCA
AACAGTAGTACAAGCTCCCCTCAGCCAGCCTGCCTGCCAGCGAGGCCCCAGGTTCAAG
GTGTTGGCGGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGCTGCCACCAACACCA
ACACACACACACCTCTAAGCTGCTGGCCGAAGATGTCACCAAGGCCAAAGACACAGTATT
ATGAAGGTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTGGGCAAACCTGGCTC
GGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGTTTGACAAAGGTCAGT
AATACGTTTTCCCTGGGGTTGACCAGATGTTCCAAAATATCTGCATCCACCTGGAGATG
CAGCTAAGTGGGTCTTATGTACACACCACGTTACACACACACAGAGGGACCACGTGTG
CACGCATGACCGTGTGGGTGGCGGCTTTGCTGTGAACACGCTCAGGCCACACAGAGAC
ACATACTTGGTTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGTGCTACAGATACTGC
AAACGTTTCTACAGCCTAGAGGTGCGTATACACACCCAAGTACACGCAGCCAGGCATTCA
GGGGTGTGTTTGCCACATGGAGCATCCCTTCTGGTCTTGCCAGGCACCTGCACAGAGCG
TCTCCAGCCCCATCTCCTAACGGGGGGCTGGGGGTAAGAGAAATCTAACTGCGCTCCCCA
ACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCCAGGCCTGTGCGTGGT
GGAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGGGGACCAACAGGTTGC
TTACAGCTTTTGACCCCGGCATCAGCACAGGGGTCCCTGCCCCACCTCCGGCAGCTCAG
GGAGTGTGTTTTCTGTGAGGCCTCCCCCATCAGTGGACCAGAGGGAGAAGCCCGATGCCCC
ATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTATAGGAACGGCCCAGATCG
CCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTTCTGCCCAAATGCAGCC
CATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCTCCAGTCCCTGTTGGCTTTTCGGTA
GCTCTCGCATGCAGTTCTATTAAACAGCCGTCTAGAAGCGATGCTTTAGTGGCCTAACCCA
GGGTCAAATACAGCTCTTTCTAGCAAAATCAGGCAGCTCTGCCCCATCGGTAGGGGCACC
GATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGGAGGAGCTGAGCCCCC
GGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTCTTGGGAGCTTCTGCCTCC
GTGGGCCTCTCAGCCCCGCCCCGTGTGGCCGCCCCGGGTGTGGCTCAGCCATGTCCCCTCCC
CAGGTCCTTCATTACCCCCTCCCCCTCCCCACAGTGGAATTGTTGAAGTGTGGCGAGTCTG
TGCTCGGGACAATAAAGCTTGTGACAGGTCCAGG

Gene 423. >ENST00000275634 cDNA sequence

CGGCTCGGCCCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCCGGCGCC
AGGAGGGGGTGCAGCCGGTGGGCAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCGAGAGGAGGAGGCCGGGGCTCTCCGGGCCTCCCGCCGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCCACCTGCCCAGTGGCACCGCCATGCAGAAGCCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGGACATCTACTGGGTGAGCTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACAGTCATCTGGACCC
TCCTCCTCCCCGGCCGAGCTGCTGCCCCCGAGAAGCCGGGCCCCAAGGCGGCGGAAGTG
GGGGATGACTTCTTGGGGGACTTTGTGGTGGGCGAGCGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGAGTATCTGGGAGAGACGCAGTTTCGCACCGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCGCTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTCACGCGGCCCTCCAAGCTGACCCGGCAGCCACCGCC
GAGGGCTCGGGGAGTGATGCCCCACTCCGTGGAGTCGCTGACTGCCCAGAACCTGTATTG
CATTCGGGCACGGCCACGCCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGCGTGCTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCGGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCCCTTGGGAAGAATGATGGGGCGGTGGCGGGCACCAGGTAATTCCAG
TGCCCAACCAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCCA
TCTACCAGCCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCCTCCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTGGGCCAGCCGAGTGGCCTGCTCACGGAGACCTCTTCACGCTACGCCCCGAAGATC

FIGURE 1 (CONT'D)

TCGGGCACCACGGCCTTG CAGGAGGCACTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAA CGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGGCTGCTCGTGGAGAGCGTGCGGAAAGAGAAGGTGGACCTG
TCCAACCAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGCAGTTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGCTGACCACAGTGGCCGAGAAGTCGCGCGTGCTG
CAGCTGGAGGAGGAGCTCACCTGCGCCGAGGTGAAATCGAGGAGCTCCAGCAGTGCCTG
TTGCACTCGGGTCCCCACCTCCGGACCAACCAGACGCCGCCGAGATCCTGCGGCTACGG
GAGCGGCTGCTCTCGGCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGCTGCGGGATAAA
TACGAGAAGGCCCTGAAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAG
AAGTACGCACAGGAGGTGGCGGGCCTGAAGGACAAGGTTT CAGCAGGCCACCAGCGAGAAC
ATGGGGCTAATGGACAACCTGGAATCCAAGCTGGA CTGCTGGCCTCGGACCACCAGAAG
TCCCTGGAGGACCTCAAAGCCACCCTGAACTCGGGCC CAGGCGCCAGCAGAAGGAGATC
GGCGAGCTGAAGGCAGTGATGGAGGGCATCAAGATGGAGCACCAGCTGGAGCTGGGTAACT
TTGCAGGCCAAGCATGACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGA
GAGAAGCTGCAGGAGGCC CAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAG
CTGGAGGTGCAAGCCAGCCAGCACCGGCTGGAGCTGCAGGAGGCC CAGGACCAGCGCCGG
GATGCCGAGCTGCGTGTGCACGAGCTGGA AAACTGGACGTGGAGTACCGGGGCCAGGCG
CAGGCTATCGAGTTCTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTAC
GAGCGGCTGCAGCGGGCAGAAGCCAGGGCAAACAGGAGGTGAGAGTTTTCGCGGGAGAAG
CTCCTGGTGGCTGAGAACAGACTCCAGGCGGTGAGGCCCTGTGCTCCTCCAGCACACC
CACATGATTGAGTCGAATGACATTT CAGAGGAGACGATCAGGACGAAGGAACTGTGGAG
GGCCTGCAGGACAAGCTGAACAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCAGACC
GAGATGCTCAGGGCCCAAGTAAGTGCGCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAG
GTGGACGCCCTCCTGAAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCCGG
AAGACCCATGACGCCTCGGGCCAGCTAGTCTCATCAGCCAGGAGCTGCTGCGGAAGGAG
CGGAGCCTGAACGAACTGCGGGTGTTGCTGCTGGAGGCCAATCGTCACTCCCCAGGGCCG
GAGAGGGACCTGAGCCGTGAGGTACACAAGGCTGAGTGGCGGATCAAGGAGCAGAACTC
AAGGATGACATCCGGGGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTG
TCGGATCAGAGGCGCTACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTG
CAGCACCAGCTGATGAGCACGGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAG
GTGGAGAAGCTGATGGAGGCCATGAGGAGCTGCCCTGACAAGGCC CAGACCATCGGCAAT
TCCGGTTCTTGCAAACGGCATCCACCAGCAGGACAAAGCTCAGAAA CAAGAGGACAAGCAC
TGATCCTGAGGGGATACTGTGGAGCAGCCCAGTCCACACCAGAGCCCCACGCGGCTGCCC
GGCAGTACCTCCTCCAGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTTTTGT
AACAATAACGTACTCACCGCCGCGGACAATCCCCACCCCGATCCCTCGCCAGACCAGGA
CGCTTCCTCAAGCCCAGCCTTCTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCG
GGGACCTTCAGCCTGGACACCCGGCAGCTTCTGGAGTTTGT CAGTGGAGGCAGAGGGGAT
CCGGCCAGGCCCCCTCTGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCC
TCTTTTTCCGCCCATTCTCCCTCGGGTCTCCCCAGAGGGGCCGGCGGGGGCTGGGGAGGG
GGTAAGTTTATCCATGCAGACACCAAGGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGG
GCCCCTTTTCCGAAGCCACTTCAGGCCAAGGCAGTCGCCAGGGCTTCTTGTCCCCACCT
TCTGAACCTTCTTCAAACAGTAGTACAAGCTCCCCTCAGCCAGCCTGCCTGCCCAGCGAG
GCCCCCAGGTTCAAGGTGTTGGCGGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGC
TGCCCAACCAACACCAACACACACACCTCTAAGCTGCTGGCCGAAGATGTCACCAAGGC
CAAAGACACAGTATTATGAAGGTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTG
GGCAAACCTGGCTCGGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGT
TTGACAAAGGTGAGTAATACGGTTTCCCCTGGGGTTGACCAGATGTTCCAAAATATCTGC
ATCCACCTGGAGATGCAGCTAAGTGGGTCTTATGTACACACCACGTTACACACACACA
GAGGGACCAGTGTGCACGCATGACCGTGTGGGTGGCGGCGTTTGCTGTGAACCACGCTC
AGGCCACACAGAGACACATACTTGGTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGT
GCCTACAGATACTGCAAACGTTCTTACAGCCTAGAGGTGCGTATACACACCCAAGTACAC
GCAGCCAGGCATT CAGGGGTGTGTTTGCCACATGGAGCATCCCTTCTGGTCTTGCCAGG
CACCTGCACAGAGCGTCTCCAGCCCATCTCCTAACGGGGGCTGGGGGTAAGAGAAATCT

FIGURE 1 (CONT'D)

AACTGCGCTCCCCCAACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCC
AGGCCTGTGCGTGGTGGAAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGG
GGACCAACAGGTTGCTTACAGCTTTGCACCCCGGCATCAGCACAGGGGTCCCTGCCCCAC
CCTCCGGCAGCTCAGGGAGTGTTTTCTGTGAGGCCTCCCCATCAGTGGACCAGAGGGA
GAAGCCCGATGCCCCATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTATAG
GAACGGCCAGATCGCCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTCC
TGCCCAAATGCAGCCCATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCTCCAGTCCC
TGTTGGCTTTTCGGTAGCTCTCGCATGCAGTTCTATTAACAGCCGTCTAGAAGCGATGCTT
TAGTGGCCTAACCCAGGGTCAAATACAGCTCTTTCTAGCAAATCAGGCAGCTCTGCCCC
ATCGGTAGGGGCACCGATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGG
AGGAGCTGAGCCCCCGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTTCTTG
GGAGCTTCTGCCTCCGTGGGCTCTCAGCCCGCCCCGTGTGGCCGCGGGGTGTGGCTCA
GCCATGTCCCCTCCCAGGTCTTTCATTACCCCTCCCCTCCCCACAGTGGAATTGTTGA
AGTGTGGCGAGTCTGTGCTCGGGACAATAAAGCTTGTGACAGGTCCAGG

Gene 424. >ENST00000265761 cDNA sequence

GCGCCGAGCCGGTTTTCCCGCCGGTGTCCGAGAGGCGCCCCCGGCCCGCCCCCAGC
CCCAGCCCCCGCCGGGCCCCCGCCCCCGTTCGAGTGCATGAGGTTGACGCTACTTTGTTGCA
CCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGCGAGTTGCCCGTGTGTGCAAGCTGCG
GCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGGCACGCAGACT
GCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTTCGACCAGTACTATGAGAAGGATGGGC
AGCTCTTCTGCAAGAAGGACTACTGGGCCCCGTATGGCGAGTCTGCCATGGGTGCTCTG
AGCAAATCACCAAGGGACTGGTTATGGTGGCTGGGGAGCTGAAGTACCACCCCGAGTGTT
TCATCTGCCTCACGTGTGGGACCTTTATCGGTGACGGGGACACCTACACGCTGGTGGAGC
ACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCGTCATCGAGC
AGATCCTGCCTGACTCCCCTGGCTCCCACCTGCCCCACACCGTCACCCTGGTGTCCATCC
CAGCCTCATCTCATGGCAAGCGTGGACTTTTCAGTCTCCATTGACCCCCCGCACGGCCAC
CGGGCTGTGGCACCGAGCACTCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCA
TGAGCCCAGATGTGAAGAATTCCATCCACGTCCGAGACCGGATCTTGGAATCAATGGCA
CGCCCATCCGAAATGTGCCCCCTGGACGAGATTGACCTGCTGATTGAGGAAACCAGCCGCC
TGCTCCAGCTGACCCCTCGAGCATGACCCCTCACGATACACTGGGCCACGGGCTGGGGCTG
AGACCAGCCCCCTGAGCTCTCCGGCTTATACTCCCAGCGGGGAGGCGGGCAGCTCTGCCC
GGCAGAAACCTGTCTTGAGGAGCTGCAGCATCGACAGGTCTCCGGGCGCTGGCTCACTGG
GCTCCCCGGCCTCCCAGCGCAAGGACCTGGGTGCTCTGAGTCCCTCCGCGTAGTCTGCC
GGCCACACCGCATCTTCCGGCCGTCCGACCTCATCCACGGGGAGGTGCTGGGCAAGGGCT
GCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGGTGAAGG
AGCTGATCCGGTTTCGACGAGGAGACCCAGAGGACGTTTCTCAAGGAGGTGAAGGTATGC
GATGCCTGGAACACCCCAACGTGCTCAAGTTTCATCGGGGTGCTCTACAAGGACAAGAGGC
TCAACTTCATCACTGAGTACATCAAGGGCGGCACGCTCCGGGGCATCATCAAGAGCATGG
ACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCATCAGGGATGG
CCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCACAACCTGCCTGGTCC
GCGAGAAACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATGGTGGACGAGA
AGACTCAGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCG
TGGTGGGCAACCCCTACTGGATGGCACCTGAGATGATCAACGGCCGAGCTATGATGAGA
AGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCGAGATCATCGGGCGGGTGAACGCAG
ACCCTGACTACCTGCCCCGCACCATGGACTTTTGGCCTCAACGTGCGAGGATTCTTGACC
GCTACTGCCCCCAAACCTGCCCCCGAGCTTCTTCCCCATCACCGTGCGCTGTTGCGATC
TGGACCCCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAGACCCTCCGCA
TGCACCTGGCCGGCCACCTGCCACTGGGCCCCACAGCTGGAGCAGCTGGACAGAGGTTTCT
GGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTGCCACCCCTGAGGTCCCCGACTGAG
CCAGGGCCACTCAGCTGCCCCCTGTCCCCACCTCTGGAGAATCCACCCCCACCAGATTCTT
CCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTCAGAGCCAGGC
CCTGACTTGCCCTTCTCCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTGCCGTGGCCCC
AGAGCCGGCCAGCTGCACACACACCATGCTCTCGCCCTGCTGTAACCTCTGTCTTGG
CAGGGCTGTCCCCTCTTGCTTCTCCTTGATGAGCTGGAGGGCCTGTGTGAGTTACGCCC

FIGURE 1 (CONT'D)

CTTTCCACACGCCGCTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTGGTCCATAGCT
CCCTGGAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCG
TGGGAGGGCGCACATCAGGGCAGAGGCCAAGTTCCAGGTGTCTGTGTTCCAGGAACCAA
ATGGGGAGTCTGGGGCCCCTTTTCCCCCAGGGGGTGTCTAGGTAGCAACAGGTATCGAG
GACTCTCCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAGGTCCCCAGTG
GCTGAGCAAAACAGCCCCCTTCTCTCGCTTTGGGTCTTTTTTTTTGTTTCTTTCTTAAAGCCA
CTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGA
GCTGCGGTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCAC
AGTGGAACCGGCAGGTGTCCACCAGCAGCTCAGCCCCCTGCAGTCATCTCAGAGCCCCCTTC
CCGGGCCTCTCCCCAAGGCTCCCTGCCCCCTCCTCATGCCCCCTCTGTCTCTGCGTTTTT
TCTGTGTAATCTATTTTTTTAAGAAGAGTTTGTATTATTTTTTTCATACGGCTGCAGCAGCA
GCTGCCAGGGGCTTGGGATTTTTATTTTTGTGGCGGGCGGGGGTGGGAGGGCCATTTTGTC
ACTTTGCCTCAGTTGAGCATCTAGGAAGTATTA AAACTGTGAAGCTTTCTCAGTGCACTT
TGAACCTGGAAAACAATCCCAACAGGCCCCGTGGGACCATGACTTAGGGAGGTGGGACCCA
CCCACCCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCAGAACATAAA
ATAAATTCCGTACTCCCCACCC

Gene 425. >ENST00000252037 cDNA sequence

GTACAGCCAGGGAGGGCAGCGGGGCGACCAGGCCGAAGGCTCACGCCACAGGGAGGGC
AGCTAGGACATGGGGGGAAGCGCTTAAACCAGGGAGTCTTGAAGGGGACGACGCCCCC
GGCCAGTCCCTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGGACCGGGC
GTGCTGAAGGACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTTCGGTG
CTAGTGAAATACTCGGGATACCTGGAACACATGGACAGACCCTTCGATTCTAATTACTTT
AGGAAAACCTCCTCGGCTAATGAAACTTGGAGAGGATATTACACTGTGGGGCATGGAGCTG
GGCCTTCTGAGCATGCGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCC
TATGGAACGCTGGGCTGCCCTCCCTTGATCCCCCCTCAACACCACTGTCTGTTTGAGATT
GAGCTGCTTGACTTCTGGAAGTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCTGAG
CAGCAAGACCAATTTCCACTTCAGAAGGTCCTGAAAGTGGCAGCTACGGAACGGGAGTTT
GGCAACTACCTTTTCCGCCAGAATCGTTTCTATGATGCCAAAGTGAGATATAAAAGGGCC
CTGTTGCTTCTGCGCCGGCGATCAGCACCCCCCTGAAGAGCAGCACCTGGTGGAGGCCGCC
AAGCTTCCTGTTCTCCTGAACCTGTCTTTTACATACCTGAAGCTAGACCGACCCACCATA
GCCCTGTGCTATGGAGAGCAGGCTTTGATCATTGACCAAAAGAATGCCAAGGCCCTCTTC
AGGTGTGGACAGGCTTGTCTTCTCCTGACTGAGTATCAAAAGGCCCGGGATTTTCTAGTT
CGAGCCCAGAAGGAGCAACCCCTTCAATCATGACATCAATAATGAGCTGAAGAACTGGCT
AGCTGTTACAGGGACTATGTGGATAAAGAGAAAGAAATGTGGCACCGCATGTTTCGCGCCC
TGTGGCGATGGTTCTACAGCAGGAGAAAGTTGAAGGTTCTTACCTACCAACGAGGGGAG
AGAGCTGTGGTTCTCCATCATTGGGGGAGTGAAGGGAGCTCCAGCGCAGCCGTGGCAG
CCACCTTCCAGGAGCAGGGGCTGGAATGTCTGTGGCCGCATCTCTCATGGACGCGGCTG
AAACGTGTTTTTACAGGTGCTGTTTTCTGTTTTCCGTGTTCTGTAACAGAAGGGAGGGGAA
AGCGCAGCTACTGACAAGTAGAACTGCTACTTTTTTTAAGGCAGTTTCTTGTTTTTTTT
AGACGGAATTAGTCTTGGCTTCCCTCCCAGTCCCAGCCCTGCTTCCGGCTGCGAATGTC
CCTGAGTCAACACCAATAGAGATTGCTTTGTGTATTTTGTAGGGTTCTCTGTTTTGAAGA
CAGAATTATGTTACAAATGTTTTTGTGTAAATAAATAAAACACTTCCTTGTCCTTGC

Gene 426. >ENST00000320425 cDNA sequence

ATGGCGGGTCTGACGGCGGGCGGCCCCGCGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTTGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGACCTCACCCCATCCTCCCTCCGCGAGGGCTCGGCGCCTTCCCC
GCAGTTACCTTTCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCTGCAGCCTAT
AAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTG
TCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGT
GTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCCCGGTGTG
GGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGT
GGAGCTTTTGCTGGAATCCCAGGAGTTGGACCTTTGGGGGACCGCAACCTGGAGTCCCA
CTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACA

FIGURE 1 (CONT'D)

GGGAAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGT
TACCCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCA
GCAAAGTTCGGTGCTGGAGCAGCCGGAGTCCTCCCTGGTGTTGGAGGGGCTGGTGTTCT
GGCGTGCCTGGGGCAATTCTTGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCA
GCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTG
CCTGGTGGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTCCTCAGGAGCTGGCGTTCCAGGT
GTTGGTGTCCTCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCG
GTTCCAGGGGTTGTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATAC
GGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGC
TTTCCCGGCTTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTC
GGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCA
GCAGCTGCCGCCAAGGCTGCCAAGTACGGAGTGGGGACCCAGCAGCTGCAGCTGCTAAA
GCAGCCGCCAAAGCCGCCAGTTTGGGTTAGTTCTCTGGTGTCGGCGTGGCTCCTGGAGTT
GGCGTGGCTCCTGGTGTCGGTGTCGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGCGTG
GCTCCTGGAGTTGGTGTCGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGTGGA
GTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAGCCAGCTCCGAGCTGCA
GCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGTCGGCGTCCCTGGACTTGGA
GTTGGTGCTGGTGTTCTTGGACTTGGAGTTGGTGCTGGTGTTCTTGGCTTCGGGGCAGGT
GCAGATGAGGGAGTTAGGCGGAGCCTGTCCCTGAGCTCAGGGAAGGAGATCCCTCCTCC
TCTCAGCACCTCCCCAGCACCCCTCATCACCCAGGGTACCTGGAGCCCTGGCTGCCGCT
AAAGCAGCCAAATATGGAGCAGCAGTGCTGGGGTCTTGGAGGGCTCGGGGCTCTCGGT
GGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGGACCCGCCCGCCGCTGCCGCAGCC
AAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTCGGAGGACTC
GGAGTCGGAGGGCTTGGAGTTCCAGGTGTTGGGGGCCTTGGAGGTATACCTCCAGCTGCA
GCCGCTAAAGCAGCTAAATACGGTGCTGCTGGCCTTGGAGGTGTCTAGGGGGTGCCGGG
CAGTTCCCACTTGGAGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCATTTTCCCA
GGTGGGGCCTGCCTGGGGAAAGCTTGTGGCCGGAAGAGAAAATGA

Gene 427. >ENST00000309678 cDNA sequence

ATGGCGGGTCTGACGGCGGCGGCCCCGCGGCCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCTTGGGGCCATTCTCTGGTGGAGTTCTTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGACCTCACCCCATCCTCCCTCCGAGGGCTCGGCGCCTTCCCC
GCAGTTACCTTTCCGGGGGCTCTGGTGCTGGTGGAGTGGCTGACGCTGCTGCAGCCTAT
AAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCTCAGGAGTTGGTGGCTTAGGAGTG
TCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGT
GTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCCCGGTGTG
GGGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGT
GGAGCTTTTGCTGGAATCCAGGAGTTGGACCTTTGGGGGACCGCAACCTGGAGTCCCA
CTGGGGTATCCCATCAAGGCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACA
GGGAAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGT
TACCCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCA
GCAAAGTTCGGTGCTGGAGCAGCCGGAGTCCTCCCTGGTGTTGGAGGGGCTGGTGTTCT
GGCGTGCCTGGGGCAATTCTTGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCA
GCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTG
CCTGGTGGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTCCTCAGGAGCTGGCGTTCCAGGT
GTTGGTGTCCTCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCG
GTTCCAGGGGTTGTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATAC
GGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGC
TTTCCCGGCTTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTC
GGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCA
GCAGCTGCCGCCAAGGCTGCCAAGTACGGGTAGTTCTCTGGTGTCGGCGTGGCTCCTGGA
GTTGGCGTGGCTCCTGGTGTCGGTGTCGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGC
GTGGCTCCTGGAGTTGGTGTCGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGT
GGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAGCCAGCTCCGAGCT

FIGURE 1 (CONT'D)

GCAGCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGTCGGCGTCCCTGGACTT
GGAGTTGGTGCTGGTGTTCTTGGACTTGGAGTTGGTGCTGGTGTTCTTGGCTTCGGGGCA
GTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCCTGGGGTC
CTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGTGTGGTGGGAGCCGGA
CCCGCCGCCGCCCTGCCGAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTG
GGAGCCGCTGGGCTCGGAGGACTCGGAGTCCGAGGGCTTGGAGTTCCAGGTGTTGGGGGC
CTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACGGAGTGGCAGCAAGA
CCTGGCTTCGGATTGTCTCCCATTTTCCAGGTGGGGCCTGCCTGGGGAAAGCTTGTGGC
CGGAAGAGAAAATGA

Gene 428. >ENST00000320492 cDNA sequence

ATGGCGGGTCTGACGGCGGCGGCCCCGCGGCCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTTGGTGGAGTTCTTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGGCTCGGCGCCTTCCCCGAGTTACCTTTCCGGGGGCTCTGGTG
CCTGGTGGAGTGGCTGACGCTGCTGCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTT
GGTGGTGTCCTCAGGAGTTGGTGCTTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAGCCT
GGAGCCGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGGCTGCCAGGTGTATACCCAGGT
GGCGTGCTCCAGGAGCTCGGTTCCCCGGTGTGGGGGTGCTCCCTGGAGTTCCCACTGGA
GCAGGAGTTAAGCCCAAGGCTCCAGGAGTTGGACCTTTGGGGGACCGCAACCTGGAGTC
CCTACTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGCTATGGGCCCCGAGGAGTGGCT
GGTGACGCGGCAAGGCTGGTTACCCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCA
GCAGCGGCAGCTAAAGCAGCAGCAAAAGTTCCGTGCTGGAGCAGCCGGAGTCTCCCTGGT
GTTGGAGGGGCTGGTGTTCTTGGCGTGCTGGGGCAATTCTTGAATTGGAGGCATCGCA
GGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTAT
GGAGCTGCTGCAGGCTTAGTGCTGGTGGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTC
CCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCTCAGGAGCTGGGATTCCAGTTGTCCAGGT
GCTGGGATCCAGGTGCTGCGGTTCCAGGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCA
GCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCCGGAGTCCGAGTTGGAGGCATTCTACT
TACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTTGGTGTCGGAGTCCGAGCCGAAGCTCAG
GCAGCAGCTGCCGCCAAGGCTGCCAAGTACGGGTTAGTTCTTGGTGTGGCGTGGCTCCT
GGAGTTGGCGTGGCTCCTGGTGTCGGTGTTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTT
GGCGTGGCTCCTGGAGTTGGTGTTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCT
GGTGGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAGCCCAGCTCCGA
GCTGCAGCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGCTGGTGTTCTTGGCTTCGGG
CTTGGAGTTGGTGCTGGTGTTCTTGGACTTGGAGTTGGTGCTGGTGTTCTTGGCTTCGGG
GCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCCTGGG
GTCCTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGTGTGGTGGGAGCC
GGACCCGCCGCCGCTGCCGAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTA
GTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCCGAGGGCTTGGAGTTCCAGGTGTTGGG
GGCCTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACGGTGCTGCTGGC
CTTGGAGGTGTCTAGGGGGTGCCGGGCAGTTCCCACTTGGAGGAGTGGCAGCAAGACCT
GGCTTCGATTGTCTCCCATTTTCCAGGTGGGGCCTGCCTGGGGAAAGCTTGTGGCCGG
AAGAGAAAATGA

Gene 429. >ENST00000252034 cDNA sequence

GTCCCTGGGGCCATTCTTGGTGGAGTTCTTGGAGGAGTCTTTTATCCAGGGGCTGGTCTC
GGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGCAAACCTCTTAAGCCAGGACCTCAC
CCCATCCTCCCTCCGAGGGCTCGGCGCCTTCCCCGAGTTACCTTTCCGGGGGCTCTG
GTGCTGGTGGAGTGGCTGACGCTGCTGCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGG
CTTGGTGGTGTCCTCAGGAGTTGGTGCTTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAG
CCTGGAGCCGAGTGAAGCCTGGGAAAGTGCCGGGGCCTGCAAGGCCTGCCTTCTACAC
TCACTGCTTTGTCCCCCGGAGGAGCTCGGTTCCCCGGTGTGGGGGTGCTCCCTGGAGTT
CCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGTGGAATC
CCAGGAGTTGGACCTTTGGGGGACCGCAACCTGGAGTCCCACTGGGGTATCCCATCAAG
GCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACAGGGAAACTGCCCTATGGC

FIGURE 1 (CONT'D)

TATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGTTACCCAAACAGGGACAGGG
 GTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGCTGGA
 GCAGCCGGAGTCTCTCCCTGGTGTGGAGGGGCTGGTGTTCCTGGCGTGCCTGGGGCAATT
 CCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCA
 GCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTGCCTGGTGGGCCAGGCTTT
 GGCCCGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCAGGTGTTGGTGTCCAGGAGCT
 GGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGGGTTGTGTCA
 CCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAATACGGGGCCAGGCCCGGAGTC
 GGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTTGGTGTCT
 GGAGTCGGAGGTATCCCTGGAGTGCAGGTGTCCCTGGTGTGGAGGTGTTCCCGGAGTC
 GGAGGTGTCCCGGAGTTGGCATTTCCTCCGAAGCTCAGGCAGCAGCTGCCGCCAAGGCT
 GCCAAGTACGGTGCTGCAGGAGCAGGAGTGCTGGGTGGGCTAGTGCCAGGTGCCCCAGGC
 GCAGTCCCAGGTGTGCCGGGCACGGGAGGAGTGCCAGGAGTGGGGACCCAGCAGCTGCA
 GCTGCTAAAGCAGCCGCCAAAGCCGCCAGTTTGCTCTTCTCAATCTTGACAGGGTTAGTT
 CCTGGTGTTCGGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTTCGGTGTGGCTCCTGGA
 GTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGC
 GTGGCTCCCGGCATTGGCCCTGGTGGAGTTGCAGCTGCAGCAAATCCGCTGCCAAGGTG
 GCTGCCAAAGCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGA
 GTTGGTGTTCGGCGTCCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGACTTGGAGTTGGT
 GCTGGTGTTCCTGGCTTCGGGGCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAA
 TAT

Gene 430. >ENST00000320399 cDNA sequence

ATGGCGGGTCTGACGGCGGCGGCCCCGCGGCCCCGAGTCTCCTGCTCCTGCTGTCCATC
 CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
 GTCTTTTATCCAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCT
 GCAGCCTATAAAGCTGCTAAGGCTGGTGTGGAGCAGCCGGAGTCTCCCTGGTGTGGGA
 GGGGCTGGTGTTCCTGGCGTGCCTGGGGCAATTCTGGAATTGGAGGCATCGCAGCTGCA
 GCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTGCCTGGTGGGCCA
 GGCTTTGGCCCGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCAGGTGTTGGTGTCCCA
 GGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGGGTT
 GTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAATACGGGGCCAGGCC
 GGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTT
 GGTGTTCGGAGTCGGAGGTATCCCTGGAGTGCAGGTGTCCCTGGTGTTCGGAGGTGTTCCC
 GGAGTCGGAGGTGTCCCGGAGTTGGCATTTCCTCCGAAGCTCAGGCAGCAGCTGCCGCC
 AAGGCTGCCAAGTACGGGTTAGTTCTGGTGTTCGGCGTGGCTCCTGGAGTTGGCGTGGCT
 CCTGGTGTTCGGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGA
 GTTGGTGTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGTGGAGTTGCAGCT
 GCAGCAAATCCGCTGCCAAGGTGGCTGCCAAAGCCAGCTCCGAGCTGCAGCTGGGCTT
 GGTGTGGCATCCCTGGACTTGGAGTTGGTGTTCGGCGTCCCTGGACTTGGAGTTGGTGT
 GGTGTTCTGGACTTGGAGTTGGTGTGGTGTTCCTGGCTTCGGGGCAGTACCTGGAGCC
 CTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTC
 GGGGCTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGTGACTGGCTGGGTGCACCC
 ACCATCAACCTGGTTGACCTGTCTATGGCCGCTGTGCCCTGCCTCCACCCCATCCTACA
 CTCCCCAGGGCGTGGGGGCTGTGCAGACTGGGGTGCCAGGCATCTCCTCCCCACCCGG
 GGTGTCCCCACATGCAGTACTGTATACCCCCCATCCCTCCCTCGGTCCACTGAACTTCAG
 AGCAGTTCCCATTCCTGCCCGCCCATCTTTTGTGTCTCGCTGTGATAGATCAATAAAT
 ATTTTATTTTTTGTCTCTG

Gene 431. >ENST00000265754 cDNA sequence

CGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGC
 AGAGGGTCCCGCGGCAGTGTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACA
 GAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTCAGGGCGACATA
 GATGCTATCTTTAAGGATCTCAGCATAAGGAGTGACGGCTAGTCAGAGACAAAGACACA
 GATAAATTTAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAGCC
 TTGACATACGATGGTGCATGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGC

FIGURE 1 (CONT'D)

AGAAAAAAGATAAAGGTGGCTTTGGATTAGAAAAAGGTGGACCAGATGACAGAGGCTTC
 AGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCCCC
 CCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCCTCCGTGGATCCAACATGGATTTAGAG
 GAACCCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAGTC
 GCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCT
 AGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGT
 GGGGGGTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAGCCGTCTGCAGCCGCCA
 CTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTGAGC
 TGTTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTG
 TCGTTTTTTTTCTTTCTTCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGCTC
 CTTGTTTTCCAGCAGCACATGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGG
 GCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACTGG
 CCAACTCCAGGCGTTTTCTTTTATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTGAG
 TTCTGTATTGCTGGGGCTTCAACAAAAACAGAGTCACTGACAGAGGGAACAGCAGAGA
 CTTGTTGGTATTAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCAAACT
 AGGATAAAAAATATCTGCAGGGTCTTTTCCATTCTTATTTAGAGGGAGTCTGGCTCCATG
 ACCCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAACAGTGAGGCTGAA
 AGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGCAT
 GCATTACACAGTGTGTGTGTCCCAGCTAGTTCACTCCTTTCCCGTGCCTGGTGGAGGCT
 GGCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTCTTTCTGCTGGGCCAAGGCG
 CTTTGGGGGTGGAGGGGGTGGTGCTGGTGCTGCACTGGGCTGACTGCGGCGCTGACGCAG
 CGTTTTCCCCCATCCCTGTTGCTGTGTGTGTGTGGATCTGTTCTAGTATAGGCAACA
 TAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTTCAAGGCCAAAATGGGTCTAGAATC
 TGGCACTTTACTCATTTCTTTTGATAAATTGTACTATGCAGAGCTGTGAGGAACCTTCAG
 ATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGAC
 TGTTCCCATGTGCAGGGTTTCAAGCTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCT
 TGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCCAGTCTGTCTTA
 TGGGGAGCAGTTTGGGGGGCGGCCGGCAGCAGGAGCCTGGGAAAGAGGGCCCTCGCCAGGTG
 ATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACCAG
 CCGTCATCCTGGGCTTTTTCTACTGTGTCTTGTGTTACAAGGCCTCAGCAATCCACAGAACT
 CTCTCTCCTTCTTCCACCTGTGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGTAA
 CACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGTAAATCAAAACCGATGCTTTC
 AGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAACACATGCATCTAAA
 CTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACACAT
 TCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAAT
 AAAAGAAAACCTTACGTAATATTT

Gene 432. >ENST00000265753 cDNA sequence

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGGCG
 GCAGAGGGTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCA
 CAGAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTCAGGGCGACA
 TAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGACGGCTAGTCAGAGACAAAGACA
 CAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
 CCTTGACATACGATGGTGCATGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAG
 GCAGAAAAAAGATAAAGGTGGCTTTGGATTAGAAAAAGGTGGACCAGATGACAGAGGAA
 TGGGTAGCTCTCGAGAATCTAGAGGTGGATGGGATTCCCGGGATGACTTCAATTCTGGCT
 TCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCC
 CCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCCTCCGTGGATCCAACATGGATTTCA
 GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAG
 TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGC
 CTAGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGC
 GTGGGGGGTGTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAGCCGTCTGCAGCCGC
 CACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
 GCTGTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
 TGTGCGTTTTTTTTCTTTCTTCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGC

FIGURE 1 (CONT'D)

TCCTTGT TTTTCCAGCAGCACATGGGGTTCCTCGGAGGAGCAGAGGTGGCCGCCGTGGGG
GGGCGTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACT
GGCCAACTCCAGGCGTTTCTTTTCATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGT TGGTATT CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTTCAAA
CTAGGATAAAAAATATCTGCAGGGTCTTTTCCATTCTTATTTAGAGGGAGTCTGGCTCCA
TGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAACAGTGAGGCTG
AAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCCAGCTAGTTCACTCCTTTGCGCGTGCGTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTCTTTTCTGCTGGGCCAAGG
CGCTTTGGGGGTGGAGGGGGTGGTGTCTGGTGTGCACTGGGCTGACTGCGGCGCTGACGC
AGCGTTTCCCCCATCCCTGTTGCTGTGTGTGTGTGGATCTGTTCTTAGTATAGGCAA
CATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGT CAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGG
ACTGTTCCCATGTGCAGGGTT CAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAG
CTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCAGTCTGTCC
TATGGGGAGCAGTTTGGGGGCGGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC
AGCCGT CATCCTGGGCTTTTTCTACTGTGTCTTGT TACAAGGCCTCAGCAATCCACAGAA
CTCTCTCTCCTTCTTCCACCTGT CAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGT
AACACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGTAAATCAAACCCGATGCTT
TCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCAAACACTTAACAC
ATT CAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAA
ATAAAAGAAAACCTTACGTAATATTT

Gene 433. >ENST00000306312 cDNA sequence

AGGCAGCGGCTGTGGAGCGCGGCGGGGCGGCTCCGCCAGGGCAGCCCGGGCTGGGCCAA
GGAGCGAGCTCTCCCTTCTCCTGCTCTCAGCCTCAGTGATCAAGGCTTCAGTGAAGTGC
CTGGAGCTCCAGCGGGGGATCTTGTCCCCTGTCCCGACTTTTGTGCTGCACATTGGATC
TGGTGACACTCAGGAAATGCTTGTCTCCGGCTGTTAAGGAATAATTT CAGAGTACTATGG
ATCATGCTGAAGAAAATGAAATCCTTGCAGCAACCCAGAGGTAATGTGGAAAGGCCTA
TCTTTAGTCATCCGGTCTCCAGGAAAGACTACACACAAAGGACAAGGTTCTTGATTCCA
TTGCGGATAAGCTGAAACAGGCATT CACATGTACTCCTAAAAAATAAGAAATATCATTT
ATATGTTTCTACCCATAACTAAATGGCTGCCAGCATACAAATTCAAGGAATATGTGTTGG
GTGACTTGGTCTCAGGCATAAGCACAGGGGTGCTTCAGCTTCTCAAGGCTTAGCCTTTG
CAATGCTGGCAGCTGTGCCTCCAATATTTGGCCTGTACTCTTCATTTTACCCTGTTATCA
TGTATTGTTTTCTTGGAACTCCAGACACATATCCATAGGTCTTTTGTGTTATTAGCC
TGATGATTGGTGGTGTAGCTGTT CGATTAGTACCAGATGATATAGTCATTCCAGGAGGAG
TAAATGCAACCAATGGCACAGAGGCCAGAGATGCCTTGAGAGTGAAAGTCGCCATGTCTG
TGACCTTACTTT CAGGAATCATT CAGTTTTGCTTAGGTGTCTGTAGGTTTGGATTTGTGG
CCATATATCTCACAGAGCCTCTGGTCCGTGGGTTTACCACCGCAGCAGCTGTGCATGTCT
TCACCTCCATGTTAAAATATCTGTTTGGAGTTAAAAACAAAGCGGTACAGTGGAATCTTTT
CCGTGGTGTATAGTACAGTTGCTGTGTTGCAGAATGTTAAAAACCTCAACGTGTGTTCCC
TAGGCGTCGGGCTGATGGTTTTTGGTTTTGCTGTTGGGTGGCAAGGAGTTTAAATGAGAGAT
TTAAAGAGAAATTGCCGGCGCCTATTCTTTTAGAGTTCTTTGCGGTGTAATGGGAACTG
GCATTT CAGCTGGGTTTAACTTGAAAGAATCATACAATGTGGATGTCGTTGGAACACTTC
CTCTAGGGCTGCTACCTCCAGCCAATCCGGACACCAGCCTCTTCCACCTTGTGTACGTAG
ATGCCATTGCCATAGCCATCGTTGGATTTT CAGTGACCATCTCCATGGCCAAGACCTTAG
CAAATAAACATGGCTACCAGGTTGACGGCAATCAGGAGCTCATTGCCCTGGGACTGTGCA
ATTCCATTGGCTCACTCTTCCAGACCTTTTCAATTT CATGCTCCTTGTCTCGAAGCCTTG
TTCAGGAGGGAACCGGTGGGAAGACACAGCTTGCAGGTTGTTTGGCCTCATTAATGATTC
TGCTGGT CATATTAGCAACTGGATTCTCTTTGAATCATTTGCCCCAGGCTGTGCTGTGCG
CCATTGTGATTGTCAACCTGAAGGGAATGTTTATGCAGTTCTCAGATCTCCCCTTTTTCT

FIGURE 1 (CONT'D)

GGAGAACCCAGCAAAATAGAGCTGACCATCTGGCTTACCACTTTTGTGTCTCCTTGTTC
TGGGATTGGACTATGGTTTGATCACTGCTGTGATCATTGCTCTGCTGACTGTGATTTACA
GAACACAGAGTCCAAGCTACAAAGTCCTTGGAAAGCTTCTGAAACTGATGTGTATATTG
ATATAGACGCATATGAGGAGGTGAAAGAAATTCTGGAATAAAAATATTTCAAATAAATG
CACCAATTTACTATGCAAATAGCGACTTGTATAGCAATGCATTAAACGAAAGACTGGAG
TGAACCCAGCAGTCATCATGGGAGCAAGGAGAAAGGCCATGCGGAAGTACGCTAAGGAAG
TCGGAAATGCAAATATGGCCAACGCAACTGTTGTCAAAGCAGATGCAGAAGTAGATGGAG
AGGATGCTACCAAGCCTGAAGAAGAGGATGGTGAAGTAAAATATCCCCAATAGTGATCA
AAAGCACATTTCTGAGGAAATGCAAAGATTTATGCCCCAGGGGATAACGTCCACACTG
TCATTTTGGATTTCACTCAAGTCAATTTTATTGATTCTGTTGGAGTGAAAACCTCTGGCAG
GGATTGTAAAAGAATATGGAGACGTCGGTATATATGTATACTTAGCAGGATGCAGTGCAC
AAGTTGTGAATGACCTCACTCGGAATAGATTTTTTGAAGTCTGCCCCTATGGGAGCTGC
TGTTCCACAGCATTATGATGCAGTTTTTAGGCAGCCAACTTAGAGAGGCACTTGCTGAAC
AGGAAGCCTCGGCTCCCCCTTCCAGGAGGACTTGGAGCCCAATGCCACTCCTGCCACTC
CTGAGGCATAGATGAGGACCTCACCTAGGATGGGGTTATAAGCCTCTCATGAAGTTCAT
AATTTACACGTTTTTAAATACTAGACGCTAGATTTTTTTTTTCTAAGGGTGAATACTAGTAG
TCCAGGCTTGATTTGGAGGGTGAATGACGCCTAGCAAGATGTATTGTACTTGTGTTTTTT
TAATTGAATACTTC

Gene 434. >ENST00000006777 cDNA sequence

ATGGGGCGGGGCTCTGGGAGGCGTGCCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGA
AACTGCCGCGAGGAGGCGGAAGGAGCAGAGGACCGGCAGCCGGCGTCTGAGGCGGGGCGCG
GGAACGACGGCGGCCATGGCGGCCTCGGGGCCCGGGTGTGCGAGCTGGTGCTTGTGTCCC
GAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTGGTTTTCCGGGCCTCGC
CTGTTTCTGCTGCAGCAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCC
CTGCTCTGCGGCGCTATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAACCCTGGGC
ACCGTCCGCCACTGCTTCTTACCGTGATCTTCCGCATCTTCTCCGCTATCATCTTCCCTG
TCATTGAGGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAGGATGCCAGAGGTTTC
ACCCAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTGTTGGCATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCG
TGGCTCATTCCCCAGACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCC
TATCACCTACTGCTATTCCATCGACCTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGAC
CTTCCCCTTACAGCTGATGAGGAGGATATCCGTGTTCAAGTACGTCTCAGGGTCTTCAGC
CGAGAGGAGGGCAGCCAGAGCCGGAAGTGAACCCGGTGCCTGGCTCCTACCCACACA
GAGCTGCCACCCTCACCTGTCCCCAAGCCACCCTGTGTCCCAGACGCAGCACGCCAGTGG
TCAGAAGCTGGCCTCCTGGCCTGCACCCCGGGCACATGCCACCTTGCCTCCGTACCAG
CCTGCCTCCGGCCTGTGCTATGTGCAGAACCACTTTGGTCCAAACCCACCTCCTCCAGT
GTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATCCAGCCCCCACGCTGTGAACAGC
CCTGGCACGGTGTATTCTGGGGCCTTGCAACAGGGGCTGCAGGCTCCAAGGAGTCTCCA
GGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTC
CTCCCTAAGAGTCTCCTGACAAAAGTTACTTATTGAACACCTCTATGTGCCAGGCTCTGT
GTTGGGTACTTTGATCAATGCCCTGTTTCACTCTCATCTGTACTCACGGCAGCCCTGTG
GAGTACGGTGTACTGGCCAGCTTACAGATGCAGAAAGCGAGACGTTCTGCCATCAGATA
AAGTCACGTGGCTCTTTAGTAACACGGACAAGGCTCCTCGCAAGGAACTCGTGGCAGAA
GAGGGCAGCAGTTGGCAGTAGCTGCCGATGTCTGTCCCAGCTCCACCATTCTCCCTGT
GGCTGTGCCGTGCTCGTGGTTTTAGTGTCCGTGTGTCCATGTGTCTGCCCTTCAGGAGCT
CGCAGCTGGTGTGCTTGGCGGTCCCAGGCCTGTGTAGTGTCTCTCCCTGCTGCGGGCGC
CCCCACCCGATTCTCTCCCCAGAAGCGGTGGGATGGGCCCCCATGAACTGCAGCAGCA
TGCTGAGGTGTCCATGTTGTCTGCCTTTGTATAAAGAAACAGCCTCTGA

Gene 435. >ENST00000318622 cDNA sequence

ATGGCGGCCTCGGGGCCGGGTGTGCGAGCTGGTGCTTGTGTCCCGAGGTGCCATCCGCC
ACCTTCTTCACTGCGCTGCTCTCGCTGCTGGTTTTCCGGGCCTCGCCTGTTCTCTGCTGCAG
CAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTTCGCAACTGGCAAGCC
ACTATGGAAGGAGGGGTGAGGATTACAGCAGAGGAGACTGGCACACAGAGTGTAAAGTGA

FIGURE 1 (CONT'D)

Gene 436. >ENST00000222902 cDNA sequence

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCCTTGGTGTCTGTGCCCACCAC
ATCATCCCTACGGGCTCTGTGGTCATCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAG
AGAATTCCTGAGAACCAGAGTGGTCAGCTACCAGCTGTCCAGCAGGAGCACATGCCTCAAG
GCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGCGACCCCAAGCAGGAG
TGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAACCACCTGCTAA

Gene 437. >ENST00000265302 cDNA sequence

CTCCTAACAGTTTCATGATCAACATGGGAGACTCCCACGTGGACACCAGCTCCACCGTGT
CCGAGGCGGTGGCCGAAGAAGTATCTCTTTTTCAGCATGACGGACATGATTCTGTTTTTCG
TCATCGTGGGTCTCCTAACCTACTGGTTCTCTTTTTCAGAAAGAAAAAGAAGAAGTCCCCG
AGTTTACCAAAATTCAGACATTGACCTCCTCTGTGAGAGAGAGCAGCTTTGTGGAAGA
TGAAGAAAACGGGGAGGAACATCATCGTGTTCTACGGCTCCAGACGGGGACTGCAGAGG
AGTTTGGCAACCGCCTGTCCAAGGACGCCCACCGCTACGGGATGCGAGGCATGTGACGG
ACCCTGAGGAGTATGACCTGGCCGACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGG
TGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCCAACGACAATGCCAGGACTTCT
ACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTTCGCGGTGTTTGGTC
TTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGG
AGCAGCTCGGCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAACCTGG
AGGAGGACTTCATCACCTGGCGAGAGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGG
TGGAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACGAGCTTGTGGTCCACACCGACA
TAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGAACCAGA
AGCCCCCTTTGATGCCAAGAATCCGTTCTCTGGCTGCAGTACCACCAACCGGAAGCTGA
ACCAGGGAACCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAAATCA
GGTATGAATCTGGGGACACGCTGGCTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACC
AGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCGTTCATGTCCCTGAACAACCTGGATG
AGGAGTCCAACAAGAAGCACCCATTCCCCTGCCCCCTACGTCCTACCGCACGGCCCTCACCT
ACTACCTGGACATCACCAACCCGCGCGTACCAACGTGCTGTACGAGCTGGCGCAGTACG
CCTCGGAGCCCTCGGAGCAGGAGCTGCTGCGCAAGATGGCCCTCCTCCTCCGGCGAGGGCA
AGGAGCTGTACCTGAGCTGGGTGGTGGAGGCCCCGAGGCACATCCTGGCCATCCTGCAGG
ACTGCCCCGTCCCTGCGGCCCCCATCGACACCTGTGTGAGCTGCTGCGCGCCTGCAGG
CCCGCTACTACTCCATCGCCTCATCCTCCAAGGTCCACCCCAACTCTGTGCACATCTGTG
CGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGTCATCAACAAGGGCGTGGCCACCAACT
GGCTGCGGGCCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGGCCATGTTTCG
TGCGCAAGTCCCAGTTCCGCCTGCCCTTCAAGGCCACCACGCCTGTTCATCATGGTGGGCC
CCGGCACCGGGGTGGCACCCCTTCATAGGCTTCATCCAGGAGCGGGCCTGGCTGCGACAGC
AGGGCAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCCGCTCGGATGAGGACT
ACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCGCTCACCCAGCTCAACG
TGGCCTTCTCCCGGGAGCAGTCCCACAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACC
GAGAGCACCTGTGGAAGTTGATCGAAGGCGGTGCCACATCTACGTCTGTGGGGATGCAC
GGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACATCGTGGCTGAGCTCGGGGCCA
TGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCTACTCCC
TGGACGTGTGGAGCTAGGGGCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAAT
CAGCTCTCCTGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGG
CGCAGGCCCAGTGACAAAGACTCCTCTGGGCCTGGGGTGCATCCTCCTCAGCCCCCAGGC
CAGGTGAGGTCCACCGCCCCCTGGCAGCACAGCCAGGGCCTGCATGGGGGCACCGGGCT
CCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTCTCTGCT
GAGCTGGGCCCAGCCCCCTCCACGTGATTTCCAGTGAGTGTAATAATTTTAAATAACCTC
TGGCCCTTGAATAAAGTTCTGTTTTCTGT

Gene 438. >ENST00000265756 cDNA sequence

CGTTGGCCGGGCCCCGGGGAGGAGGGGAATCTCCCGCCATTTTTCAATAATTTCTCCGG
TGCTGCTGAGGAGGAGTCTGTACTGCCGGCCGCCGGGACCCGAAGCGGAGGTCCGGCGGG
GGCTGCTGGGAGGCGCGGCGGTGTGCGCGGAGCTCTGCGCCGTGGCGTTCCGCTCCATG
ACTGTGCGCGCGGCCGCGCGGCGGTGAGGGAGCCGGAGTTCGCGCCGCCCTCTCACCCCT

FIGURE 1 (CONT'D)

CCCTTCCCCACCCACCCCCGGGCGCTGGCGCTCGCTCCGGGCCGCGGGGCTAGTGC
 TGCGCCGCGGGGCGGGCCCCAGCAGCCGCCAGTCCCCACGCGCGCGCGGATGGCGCC
 GCTCCTGGGCGCAAGCCCTTCCCGCTGGTGAAGCCGTTGCCCGGAGAGGAGCCGCTCTT
 CACCATCCCGCACACTCAGGAGGCCTTCCGCACCCGGAAGAGTATGAAGCCCGCTTGA
 AAGGTACAGTGAGCGCATTGACGTCGAAGAGTACTGGAAGCAGTCAGCTAACACACAA
 GGAAGCCTGGGAGGAAGAACAGGAAGTTGCTGAGCTTTTGAAGGAGGAGTTTCTGCCTG
 GTATGAGAAGCTTGTTCTGGAAATGGTTACCATAACACAGCCTCCTTAGAGAAGTTAGT
 AGATACTGCTTGGTTGGAGATCATGACCAAATATGCTGTGGGAGAAGAGTGTGACTTCGA
 GGTTGGGAAGGAGAAAATGCTCAAGGTGAAGATTGTGAAGATTATCCTTTGGAGAAAGT
 GGATGAAGAGGCCACTGAGAAGAAATCTGATGGTGCCTGTGATTCTCCATCAAGTGACAA
 AGAGAACTCCAGTCAGATTGCTCAGGACCATCAGAAGAAGGAGACAGTTGTGAAAGAGGA
 TGAAGGAAGGAGAGAGAGTATTAATGACAGAGCACGTAGATCGCCACGAAAACCTTCTAC
 TTCATTAAAAAAGGAGAAAGGAAATGGGCTCCTCCAAAATTTCTGCCTCACAAATATGA
 TGTGAAACTACAAAATGAAGATAAGATCATCAGTAACGTGCCAGCAGACAGCTTGATTGCG
 TACAGAGCGCCACCAAATAAGGAGATAGTTTCGATACTTTATACGGCATAATGCATTACG
 AGCTGGTACTGGTGAAGATGCACCTTGGGTCTGTAAGATGAATTGGTGAAGAAATACTC
 TCTGCCCAGCAAGTTTCACTGACTTTTTTACTTGTATCCATACAAGTATATGACTCTCAACCC
 TTCTACTAAGAGGAAGAATACTGGATCCCCAGACAGGAAGCCCTCAAAGAAATCCAAGAC
 AGACAACTCTTCTCTTAGTTCACTAAATCCTAAGTTATGGTGTACGTACACTTGAA
 GAAGTCATTGAGTGGCTCGCCACTCAAAGTGAAGAACTCAAAGAATTCAAATCTCCTGA
 AGAACATCTAGAAGAAATGATGAAGATGATGTGCCCCAATAAGCTGCACACTAACTTTCA
 CATTCTTAAAAAGGCCACCTGCCAAGAAACAGGGAAGCACAGTGACAAGCCTTTGAA
 GGCAAAGGGCAGAAGCAAAGGCATCCTGAATGGACAGAAATCCACAGGGAATTCAAATC
 TCCCCAAAAGGACTGAAGACTCCTAAAAACCAAATGAAGCAGATGACTTTGTTGGATAT
 GGCCAAAGGCACGCAGAAGATGACACGAGCCCCACGGAATTCTGGGGGTACACCTAGGAC
 CTCTAGTAAACCTCATAAACATCTGCCTCCTGCAGCCCTACACCTCATTGCATACTACAA
 AGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCTGTGTTATCTCCAAAACAGC
 TCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCAGAAGAATTGCGAAGTCTTGTTCA
 AAAACGCTATGAACTTCTAGAGCACAAAAGAGGTGGGCTTCTATGTCTGAAGAACAAAG
 GAAAGAATATTTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAGTTGAAGGAAAAAGCCAA
 AGAACGAAGAGAGAAAGAAATGCTTGAGAGATTAGAAAAACAGAAGCGGTATGAGGACCA
 AGAGTTAACTGGCAAAAACCTTCCAGCATTTCAGATTGGTGGATACCCCTGAAGGGCTGCC
 CAACACGCTGTTTGGGGATGTGGCCATGGTGGTGAATTTCTGAGCTGTTATTCTGGGCT
 ACTTTTACCAGATGCTCAGTATCCTATTACTGCTGTGTCCCTTATGGAAGCCTTGAGTGC
 AGATAAGGGTGGCTTTTTTATACCTTAACAGGGTGTGGTTCATCCTCTTACAGACCCTCCT
 ACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTGCGAAATCCCCTT
 GACTCTGCATTCTGTTTCAGAGCTGGTGCAGCTCTGCTTGCAGATCTGATGTTTCAGGA
 GGAAAGCGAGGGCTCAGACACAGATGACAATAAAGATTGAGCTGCATTTGAGGATAATGA
 GGTACAAGATGAGTTCTTAGAAAAGCTGGAGACCTCTGAATTTTTTGGAGCTGACGTGAGA
 GGAGAAGCTACAGATCTTGACAGCACTGTGCCACCGGATCCTCATGACATACTCAGTGCA
 AGACCACATGGAGACCAGACAGCAGATGTCTGCAGAGTTGTGGAAGGAACGGCTTGCTGT
 GTTGAAGGAAGAAAATGATAAGAAGAGAGCAGAGAAAACAGAAACGGAAAGAAATGGAAGC
 CAAAAATAAAGAAAATGGAAAAGTTGAGAATGGGTAGGCAAAAAGTATAGGAAAAAAGA
 AATTGTGAAGTTTGAGCCCCAAGTAGATACAGAAGCTGAAGACATGATTAGTGTGTGAA
 GAGCAGAAGGTTGCTTGCCATTCAAGCTAAGAAGGAACGGGAAATCCAGGAAAGAGAAAT
 GAAAGTGAACTGGAACGCCAAGCTGAAGAAGAACGAATACGGAAGCACAAAGCAGCTGC
 TGAGAAAGCTTTCCAGGAAGGGATTGCCAAGGCCAACTAGTCATGCGCAGGACTCCTAT
 TGGCACAGATCGAAACCATAATAGATACTGGCTCTTCTCAGATGAAGTTCCAGGATTATT
 CATTGAAAAAGGCTGGGTACATGACAGCATTGACTACCGATTCAACCATCACTGCAAAGA
 CCACACAGTCTCTGGTGATGAGGATTACTGTCTCGCAGTAAGAAAGCAAACCTTAGGTAA
 AAATGCAAGCATGAACACACAACATGGAACAGCAACAGAAGTTGCTGTAGAGACAACCAC
 ACCCAAACAAGGACAGAACCTATGGTTTTTATGTGATAGTCAAAAGGAGCTGGATGAGTT
 GCTAAACTGTCTTACCCTCAGGGAATAAGAGAAAGTCAACTTAAAGAGAGACTAGAGAA
 GAGGTACCAGGACATTATTCACTCTATTCTAGCACGGAAGCCAAATTTGGGTCTAAA

FIGURE 1 (CONT'D)

ATCTTGTGATGGCAACCAGGAGCTTTTAAACTTCCTTCGTAGTGATCTCATTGAAGTTGC
AACAAGGTTACAAAAAGGAGGACTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCG
GGTCATTTTCATTAGAGAAATTGAAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAG
TGTCTATAAAGAAATTTCTCCAAGGCTTCATGGCTCCCAAGCAAAAGAGAAGAAAACCTCCA
AAGTGAAGATTGAGCAAAAACCTGAGGAAGTGGATGAAGAGAAGAAAATGGTAGAGGAAGC
AAAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAATCCGGGAAGCTCAGACTTTCTC
CAGGATGCACGTGCTGCTTGGGATGCTTGATGCCTGTATCAAGTGGGATATGTCCGCAGA
AAATGCTAGGTGCAAAGTTTGTGCGAAAGAAAGGTGAGGATGACAAATTGATCTTGTGTGA
TGAGTGTAATAAAGCCTTCCACCTGTTTTGTCTGAGGCCGGCCCTCTATGAAGTACCAGA
TGGTGAGTGGCAGTGCCAGCTTGCCAGCCCGCTACTGCCAGGCGCAACTCCCGTGGCAG
GAACTATACTGAAGAGTCTGCTTCTGAGGACAGTGAAGATGATGAGAGTGATGAAGAGGA
GGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGATTATGAGGTGGCTGGTTTTCGATTGAG
ACCTCGAAAGACCATCCGGGGCAAGCACAGCGTCATCCCCCTGCAGCAAGGTCAGGCCG
GCGCCCGGGTAAGAAGCCACACTCTACCAGGAGGTCTCAGCCCAAGGCACCACCTGTGGA
TGATGCTGAGGTGGATGAGCTGGTGCTTCAGACCAAGCGGAGCTCCCGGAGGCAAAGCCT
GGAGCTGCAGAAGTGTGAAGAGATCCTCCACAAGATCGTGAAGTACCGCTTCAGCTGGCC
CTTCAGGGAGCCTGTGACCAGAGATGAGGCCGAGGACTACTATGATGTGATCACGCACCC
CATGGACTTTTCAGACAGTGCAGAACAAATGTTCTGTGGGAGCTACCGCTCTGTGCAGGA
GTTTTCTTACTGACATGAAGCAAGTGTTTACCAATGCTGAGGTTTACAACCTGCCGTGGCAG
CCATGTGCTAAGCTGCATGGTGAAGACAGAACAGTGTCTAGTGGCTCTGTTGCATAAACA
CCTTCCTGGCCACCCATATGTCCGCAGGAAGCGCAAGAAGTTTCTGATAGGCTTGCTGA
AGATGAAGGGGACAGTGAGCCAGAGGCCGTTGGACAGTCCAGGGGACGAAGACAGAAGAA
GTAGAGAGGCAGGGCCGTGGTGACAGTATCAGTGAGTGCCATACAGAATTGTGTATTAC
CAGCATCATGAAACAGTTGTGGTCTTTTGGAGTTGATCTTGGCAGAGTAAAGGGACGTGTC
CTGGAGCCATTCTGAATCTCCCCTTCTTTGTGACAGCTCCTCCCACCCCCCAAAAAT
AAAAAAACCACAAAAAACAAAAAACAAACTAAGGCACCTTCACTTAGAGACTGGAGTCC
TGCTTATAATCATGCATATAACCTTTACTTTGATGGATCTGGCCAGAGGGGTGTTGGAGC
CCAGCCCACCCACATACCAGTCAAGCTCTTAGGGGAGCAGAAGAAAAGCAGGAAGAATTT
AAATGTTTTAATTTTTTTTTTAAATTGACTTTTTCTAGTTATTAAAAGTTGCTTGTTTCAGC
AGTGATATTGTATAAAGAACATCTTGTAAGATACTCCTGACATCTTGCTTTAGCACATGT
ACAGTACAGTTTTCTATGATAATGTGTTTGTCTAACTTCCCTGGCTTCTCCTTCAGCCCA
TCCACTCTCCTCTAGAGCAGTTGGGTTGGAGGCTCATTGAGGCAAGCAGCAACATTGGAG
GGGGAGCAGGGCAGTGCTGTGTCTGCTGCCTCCCATGCCCGTTCTGACCTCAGCCTTGGA
ACTCCTCAAGAACCTGAAGAAGAGCGGCAGAGAAGCTCTGAGAGCCCCCTTCCCCACAAC
AAATCTAGCTCTAGTTGTTATATTTAGGCCAAAACCTTTGTAGTCTTCTTTCCCTTTTATGA
TGGATTTTGTATAAAAGTACAAAAACAGGGTTTTTCTTTTTTATCACCTTTGAATTTGGAAA
TTTTTGAGCACCCAAGCTCTTCTGTACCTATTTAAAGTCCACCAAGGGGACTGCAGCTCCT
AGAACATGAGAATCAAGCCTCTTAATTTTAAACTGCGGAATGTGGCCTCTGCTTCCTCCG
TCCTCCTGCCCAAGGACGACGAGGATTGCTCCAGGGCTGCTGGGTAGTTTACCGTCCCTT
CTATAGGCATGGAGTTGGCACTGACATCACAGCTTCATAACCCCAACCACCGCCAGCTTCC
CCTGCCTCCTACATCCAGTCTGTTCTTGTTTCATAGTGAGAATCCTGTGTTCCCACTTCAG
TGACACCTGAATTGTTTGTGTTGTTTTTTTTTTTATTGTCTTCAAAGAGGAAGGGCCC
CATTAAAGGGTGAACCTTGTAATAAATTGGAATTTCAAATAAACCTCATGTACTTGTGTTT
ATAAAGAAGAAACCA

Gene 439. >ENST00000055077 cDNA sequence

GGTGGCGGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGA
GGTGGAGGCCAGGACTCTGACCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGG
CCACTACGAACTGCCGTGGGTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTCGG
GAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCCAACAT
CATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCGGGC
CCTGCTGGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGG
CATTGACGTTGTGAGGAATAAAATTAAATGTTTGTCTCAACAAAAAGTCACTCTTCCCAA
AGGCCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCAGCA
AGCCTTGAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTA

FIGURE 1 (CONT'D)

TGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAA
GCTGACCGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACC
CTACACTGATGACGGCCTAGAAGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGC
GCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTT
CAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAA
TGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACC
AGAAGATATCATTGGCAACATCTTTCGAGTGTGTAAACTTTCCAAATGGCAGAATACCT
GAAACTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAA
CTCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAAGACAATGGCCCCGGT
GGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGG
AGCCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCT
TTAAACTCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGA
GGCCGAGGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGG
AAACCTGTCTTTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAAT
CCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCA
GTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAA
AAAATTAAATAAATAAACTCCCGTGACTTGCATGTTTGTCTTCTGGGACGTCTGTGCCCCG
CAAGTGTGTTGAGTTTGGCCTCCACCCATTGATGCGGTGACGGGGCGGAAAGGCGCAGAG
AAGCTGAGGGCGGTCTCTGATCTGTGTGTGGGTTGACATTTTAGCTAATAAAGCCTTGCA
GTGTTTGTGGC

Gene 440. >ENST00000275627 cDNA sequence

CGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTG
ACCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGG
TTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTGCGGAATGAAGACACCGTGAGCA
GGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCAACATCATCATTGCGGGCCCTCCAG
GAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCTGGGCCAGCACTCA
AAGATGCCATGTTGGAATCAATGCTTCAAATGACAGCATGACCGACGGAGCCCAGCAAG
CCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTAATG
CTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGC
TGACCGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCT
ACACTGATGACGGCCTAGAAGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGC
TGAACAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCA
AGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAATG
CCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAG
AAGATATCATTGGCAACATCTTTCGAGTGTGTAAACTTTCCAAATGGCAGAATACCTGA
AACTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACT
CTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAAGACAATGGCCCCGGTGG
CCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGGAG
CCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTT
AAACTCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGG
CCGAGGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAA
ACCCTGTCTTTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAATCC
CAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGT
GAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAA
AATTAAATAAATAAACTCCCGTGACTTGC

Gene 441. >ENST00000309368 cDNA sequence

ATTATCTTGCTCCCTGTCTATTGGAGTGTATCTCTCTTCTCTGTGTGACTTTTTGTG
TTTATGTGTGTGTTTAGTGTGTGTCCATATTTTCTGTTCTCTTGTGTCTCTCTGCTGTG
TCTCTCTCTTTTCTTTCTGTTTTTGTAGACGGAGTCTCCCTCTGTACCCAGGCTGGAG
TGCAGTGGTGCGATCTCGGCTCACTGCAACCTCTGCTTCTGAGGTTCAAACGATTCTCCT
GCCTCAGCCTCCCGAGTAGCTGGAATTACAGACACATGCCACCATGCCAGCTAATTTTG
TATTTTTAATAGAGACGGGGTTTACCATTGATCCACCCGCCTCGGCCTCCCAAAGTTTT
TGGATTACAGGTGTGAGCCACCTCGCCCGGTCTATCTCTCTTTCTTCTCTTTCTCCCTC
TCACTTTGTTTCTCTTCTCTCTCTCTCTCCCGCCTCCTTCCCCCGTCTCCCTCCCTTCC

FIGURE 1 (CONT'D)

CCCCACCGCCCTCTTCATAGCTGAGCCTGTCCGGCAGTGCGGCGGATGTACGGATGATTCC
AGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTAGTGGTGTGGCATCAGCT
TGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGGTGAGGAACCTGGACTCTCAGCA
TCACAAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGACTGAACTGCTGTGGCCCGGA
GCAGCGCTGCTGGTGTCTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAGCCCCA
GGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGC
TTTACGGGGTCCCGGACCTACTCCTTGGTTCGGGCAGGCATGGCCAGGACCCCTGGCGGAC
ATGGCACCCACAAGGAAGGACAAGCTGTTGCAACCCAGCCTGGAGGATCCAGCATCTTC
CAGGTACCAGAACTTCAGCAAAGGAAGCAGACACGGGTTCGGAGGAAGCCTACATAGACCC
CATTGCCATGGAGTATTACAACTGGGGGCGGTTCTCGAAGCCCCAGAAGAGCCGATGAT
GATGCCAATTCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCAAGAGACAGGTGCC
CAGCAGGAGGGCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAG
ACTGGCCCCACTTCTGGTCTCTGTCCCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAG
GATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGTCCAGGAAGGTATGGGGCAA
CTCCAGAGAGAAGCATCCCTGGCCCCGGGAAGCCAGACGAGGAGGACGGGGAAACCGGA
TTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCC
AAGGCAAAGAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCCC
AGAGCTACTCAACTTTTAAGCCCTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCC
TGAGGACCACCTGGCCATGCGTGCACAGCCTGGGAAAAGACAGTTACTCAGGGAGCTGC
AGGCCCGTCCCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGGTACCAAG
GGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCAACCCAGTC
CCCATAACAAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGA
TTCTTAATTGCTATTGTTGGTTGCTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAA
CTTATAGAGGGGGAGCCATATTTAACATTCTGGATTTTCAAGTAGAGATTTCTGTGTTGT
CTCCTAGAAAGCATTACATGTAGTTTATTTTCAAGCATCCTTGTGGGTGGGGCCCTGGCTC
TCTTCCCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGA
GGCTGTGCGCCATCTTTATGTGCTTCCAGTGGAAATGTCACTTGCTACAGACAATAGTGCA
TGAGAGTCTAGAGAAGTAGTGACCAGAACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGA
ATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGATTAAACAGTGTGTTGTGACTGTCT
CATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAAAAGTATC
TCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTG

Gene 442. >ENST00000315652 cDNA sequence

CAGTGCGGCGGATGTACGGATGATTAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGC
CAGTGTAGTGGTGTGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCG
TGGTGAGGAACCTGGACTCTCAGGCATCACAAGAGGCAACACCAGGAGCCAACATGAGC
TCGGGGACTGAACTGCTGTGGCCCCGAGCAGCGCTGCTGGTGTCTGTTGGGGGTGGCAGCC
AGTCTGTGTGTGCGCTGCTCAGCCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAG
AGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTTCGGG
CAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGCTGTTGCAA
TTCTACCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGC
AGACACGGGTTCGGAGGAAGCCTACATATGATGATGCCAATTCTACGAGAATGTGCTCAT
TTGCAAGCAGAAAACCAAGAGACAGGTGCCAGCAGGAGGGCATAGGTGGCCTCTGCAG
AGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTCCCTC
TGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCA
GTGGCGCGAGTCCAGGAAGGTATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCGGT
GGGAAGCCAGACGAGGAGGACGGGGAAACCGGATTACGTGAATGGGGAGGTGGCAGCCAC
AGAAGCCTAGGGCAGACCAAGAAGAAAGGGAGCCAAGGCAAAGAGGGACCACTGTGCTCA
TGGACCCATCGCTGCCTTCCAAGGACCATTTCCAGAGCTACTCAACTTTTAAGCCCTG
CCATGGTTGCTCCTGGAAGGAGAACAGCCACCTGAGGACCACCTGGCCATGCGTGCAC
AGCCTGGGAAAAGACAGTTACTCAGGGAGCTGCAGGCCCGTCCCAAGCCCTCTCCCGA
CCCAGGCTTTGTGGGGCAGGCACCTGGTACCAAGGGTAACCCGGCTCCTGGTATGGACGG
ATGCGCAGGATTTAGGATAAGCTGTCAACCCAGTCCCATAACAAAACCACTGTCCAACAC
TGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTGCTG
GGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAAC

FIGURE 1 (CONT'D)

ATTCTGGATTTTCAGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTT
ATTTTCAGCATCCTTGTTGGGTGGGGCCCTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCT
TTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTGCCATCTTTATGTGCTTCC
AGTGGAAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGACCAG
AACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCT
CTGCAGAGCTGATTAAACAGTGTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGG
ACCTTGAGTCAGAAATGTTGCCAGAAAAAGTATCTCCTCCAACCAAACATCTCAATAAA
ACCATTTTAGTTG

Gene 443. >ENST00000005180 cDNA sequence

AGGGCCGTCTCAGTCTCATAAAAGGGGATCAGGCAGGAGGAGTTTGGGAGAAACCTGAGA
AGGGCCTGATTTGCAGCATCATGATGGGCCTCTCCTTGGCCTCTGCTGTGCTCCTGGCCT
CCCTCCTGAGTCTCCACCTTGGAAGTCCACACGTGGGAGTGACATATCCAAGACCTGCT
GCTTCCAATACAGCCACAAGCCCCCTCCCTGGACCTGGGTGCGAAGCTATGAATTCACCA
GTAACAGCTGCTCCAGCGGGCTGTGATATTTACTACCAAAGAGGCAAGAAAGTCTGTA
CCCATCCAAGGAAAAAATGGGTGCAAAAATACATTTCTTTACTGAAAACCTCGAAACAAT
TGTGACTCAGCTGAATTTTTCATCCGAGGACGCTTGGACCCGCTCTTGGCTCTGCAGCCC
TCTGGGGAGCCTGCGGAATCTTTTCTGAAGGCTACATGGACCCGCTGGGGAGGAGAGGGT
GTTTCCTCCCAGAGTTACTTTAATAAAGGTTGTTCATAGAGTTGACTTGTTTCAT

Gene 444. >ENST00000292535 cDNA sequence

CCGCGGCGCGGGACAGCCCCGGGACTCTGCCAGGTGGATGTTGTGCGTAGCCGGAGCCA
GGTTGAAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCGGCAGGATGAAAGTG
AGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAAGAACTCCAGAGG
ATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCAAGGAGAGATTGATGCACTGA
GTAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAAAAGATTGATTGACG
TCCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCTCAAAGTGCAGCGCC
TGCACGATATTGAAACAGAGAACAGAACTTAGGGAACTCTGGAAGAATACAAACAAGG
AATTTGCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAAAGAGAAAATCCGAG
AATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGGAACAGAAGT
TACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACAGATGTCCACCACCT
CAAAGCTGGAGGAAGCTGAGCATAAGGTTTCAAGCCTACAAACAGCCCTGGAAAAAATC
GAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTACTGCAAAGGCCGACG
AGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGCAGAGGTGGCTCAGA
GAGAGGCGGAGACCTTAAGGGAAACAGCTCTCATCGGCCAATCACTCCCTCCAGCTGGCCT
CACAGATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCTGACCCGCTCCAGCC
TAGAAGTTGAGTTGGCCGCAAGGAGCGGGAGATCGCACAGCTGGTGGAGGACGTGCAGA
GACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTTCGGCCAGCCAGATCTCACAGCTTG
AGCAGCAGCTGAGCGCCAAAAACAGCACACTCAAACAACCTGGAAGAAAAAATCAAAGGCC
AGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACATTCTGAAGTCCATGGAGTTTGCAC
CGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCCTGGAGGTGCTGTTGCTGGAGA
AGAACCCTCGCTGCAGTCCGAGAACGCCGCGCTGCGCATCTCCAACAGCGACCTGAGCG
GGTCAGCCAGGAGGAAAGGGAAAGACCAGCCTGAAAGTCGGCGCCCCGGGATCTTTGCCGG
CCCCCCTCCTTCTCAGTTGCCCGCAACCCGGGGGAGCAGGCTTCCAATACTAATGGTA
CACACCAGTTCTCACCAGCGGGGTTAAGTCAAGACTTTTTTCAGCTCATCCCTGGCAAGCC
CCAGCCTACCCCTGGCTTCTACAGGAAAATTTGCACTAAACTCTTCTCCAGCGGCAGC
TAATGCAGTCTTCTACTCCAAGGCTATGCAGGAAGCCGGAAGCACAAAGCATGATTTTTT
CAACAGGTCCATACAGCACAACTCCATATCTTCCCAAAGTCCATTACAACAAAGCCCAG
ATGTCAATGGCATGGCCCCATCCCCAGCCAGTCAGAAAGTGCTGGGAGCGTCTCCGAGG
GCGAGGAGATGGACACTGCAGAAATCGCCCCGGCAGGTCAAAGAGCAGCTGATTAAAGACA
ATATCGGACAACGTATTTTCGGACATTATGTGTTGGGACTGTCTCAAGGGTCCGTGAGCG
AGATTCTGGCCCCGGCCCAAGCCATGGAATAAACTGACTGTTCTGTTGGCAAGGAGCCATTT
ACAAGATGAAACAGTTCTCTCCGATGAGCAGAACATCCTGGCCCTCCGTAGCATCCAAG
GCAGACAAAGAGAGAATCCAGGCCAGAGCCTGAACAGACTATTTTCAGGAAGTACCGAAAC
GAAGAAATGGGTCTGAAGGTAACATCACCACCCGGATCCGAGCCTCGGAGACTGGCTCTG
ATGAAGCCATCAAGTCCATCCTAGAGCAAGCCAAGAGGGAGCTCCAAGTGCAGAAAACCTG

FIGURE 1 (CONT'D)

CAGAGCCGGCCAGCCTTCTCTCCGCATCCGGCAGCGGGAACCTCTGATGACGCCATCCGCT
 CCATCCTGCAGCAAGCCCCGCGGGAGATGGAGGCCAGCAGGCTGCCCTCGACCCTGCCT
 TAAAGCAGGCACCACTGTCCAGAGTGACATCACCATCCTCACCCCAAGCTTCTGTCCA
 CCTCGCCCATGCCACCGTGTCCAGCTACCCACCTCTCGCCATCTCCCTGAAGAAGCCCT
 CCGCAGCTCCTGAGGCCGGTGCCTCTGCTCTGCCGAACCCCCGCGCCCTCAAAAAGGAGG
 CCCAGGACGCCCCGCGGTGGACCCCCAGGGAGCAGCCGATTGTGCACAAGGGGTCTGA
 GACAGGTGAAAAATGAGGTGGGCGCAGCGGTGCCTGGAAGGACCACTGGTGGAGCGCGG
 TGCAGCCGGAGAGAAGAAATGCCGCCTCCTCCGAGGAGGCCAAGGCCGAAGAAACGGGCG
 GCGGGAAAGAGAAGGGCAGCGGTGGCAGCGGAGGTGGCAGCCAGCCTCGGGCCGAGCGCA
 GTCAGCTCCAGGGACCCCTCGTCTGTCAGAGTACTGGAAGGAGTGGCCAGCGCTGAGTCCC
 CATACTCCAGAGCTCAGAGCTGAGTCTGACCGGGGCCAGCCGAGCGAGACACCACAGA
 ACAGCCCCCTGCCATCCTCCCCGATCGTGGCCATGTCCAAGCCCACCAAGCCCTCGGTCC
 CCCCCTGACCCCCGAGCAGTACGAGGTCTACATGTACCAGGAGGTGGACACCATCGAGC
 TCACCCGGCAGGTTAAGGAAAAGCTGGCCAAGAACGGCATCTGCCAGAGAATCTTCGGGG
 AGAAGGTGCTGGGCCTGTCCAGGGCAGCGTCAGCGACATGCTGTCCCGACCGAAGCCAT
 GGAGCAAGCTGACGCAGAAAGGCCGAGAAACCCCTTCATCCGGATGCAGCTCTGGCTGAACG
 GCGAGCTAGGCCAGGGTGTCTACCCGTCCAGGGCCAGCAGCAAGGGCCAGTCTTCCACT
 CCGTGACATCGCTCCAGGACCCGCTGCAGCAGGGCTGTGTGAGCTCAGAAAGCACTCCAA
 AGACCTCCGCCAGCTGCAGCCCTGCCCCGTGAGTCCCCGATGAGTTCCAGTGAGTCGGTGA
 AGAGCCTGACCGAGCTGGTCCAGCAGCCCTGTCCCCCATCGAGGCGAGCAAGGACAGCA
 AGCCACCAGAGCCCAGTGACCCGCCAGCATCCGACTCCAGCCCACAACCCCGCTGCCTC
 TCTCCGGACACTCGGCCCTCAGCATCCAAGAATTAGTAGCCATGTCCCCGGAGCTGGACA
 CCTACGGCATAACCAAGCGGGTGAAGGAGGTGCTGACGGACAACAACCTCGGCCAGCGCT
 TATTTGGGGAGACCATCTTAGGGCTCACCCAAGGCTCTGTCTCTGACCTCCTTGCCCGCC
 CCAAACCTGGCATAAGCTCAGTCTGAAAGGACGAGAGCCCTTCGTCCGGATGCAGCTGT
 GGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGACATGAAACGGATGGAGAAGAAAG
 CCTACATGAAGCGGCGGCACAGCTCAGTCAGTGACAGCCAGCCCTGCGAACCGCCCTCTG
 TCGGCACCGAGTACAGCCAGGGCGCCAGCCCCAGCCCCAGCACCAGCTGAAGAAACCCC
 GGGTGGTGTGGCTCCGGAGGAGAAGGAGGCGCTGAAACGAGCGTATCAGCAAAAGCCAT
 ACCCGTCACCAAAAACCATCGAAGACCTCGCCACCCAGCTCAACCTGAAAACAGCACCG
 TCATCAACTGGTTCCACAACCTACAGGTCTCGGATCCGCAGAGAACTGTTTATTGAGGAAA
 TTCAGGCCGGGAGTCAGGGCCAGGCGGGCGCCAGCGACTCACCTCGGCCCGCAGCGGCC
 GGGCGGCGCCAGCTCGGAGGGCGACAGCTGCGACGGCGTGGAGGCCACTGAGGGCCCAG
 GCAGCGCCGACACCGAGGAGCCCAAGTCTCAGGGAGAGGCCGAGCGGGAGGAGGTGCCGC
 GGCCGGCGGAGCAGACGGAGCCGCCGCCCTCGGGGACCCCGGGCCCGGACGACGCCCCGCG
 ACGACGACCACGAGGGAGGCCCCGTGGAAGGCCCGGGGCCCCCTGCCAGCCCCGCTCCG
 CGACCGCCACCGCCGCGCCCGCGGGCCCCGAGGACGCGCTACCTCAGCCGCCGCGCGC
 CGGGGGAGGGCCCCGCGGCCCGAGCTCCGCGCCGCGCCAGCAACAGCAGCAGCA
 GCGCCCCCGCAGGCCAGCTCGCTGCAGAGCCTTTTCGGCCTCCCCGAGGCCGCGGGCG
 CCCGGGACTCGCGCGACAACCCCTGCGCAAGAAGAAGGCCGCGAACTTGAACAGCATCA
 TCCACCGCCTGGAGAAGGCCGCCAGCCGGGAGGAACCTATCGAATGGGAGTTCTGAGGGG
 CCGCGGCCCTGGGGCGGGCAGCCAGGCTGGGCCGCAAGGGCCTGGACGGGGTCCGACGGG
 GCAGGCGCTGCGGACACCGTGGCCTGGGCTTGGCCCGCGGCCTGCACCGACCCGAGGCCG
 GACCTGAGCCCGCAGCCAGACCCCTCCACGGTCCGCGGCCTGCACCGACCCGAGGCCG
 AGATCCAAGGCCGCGGCCAGACCCACTCTGCGGCCCGGGCCGACCTGCGGCCTCCACC
 AACCCCGCGGCCAGACCCAGCCCGCGGCCTGGACCCCTGGACCGCTTTGCGCACTTACC
 GCCCTGCGGGCCACAGGGCAAAATCGCCATAGGCCAAGGTGCATATAGAAAACAAAGGAG
 CATTAAAGCCCAATCTATGTCTGTTTTTCAAGGAAGAAAACGGAAATGTGTGGTCTGAGCTT
 TTTTGTACCCTGAAGTGTTTTTTTTATTGCCCTAAGTGATTTCCACAGGTTCTGGAATAA
 CTCTTACAGCTTTGCCTTGTGTCTCTGTTCCGTGTGGGCTTTAAAGAAAAAATCA
 AACCCACATATTAAAGGGGGCTTTTTATCTGCCATCTAATGGCTTCAGAGCGATAATAC
 ACTATTATCTTCTTAAACAGGAAAAAATAAAGGGGGGTGGGATTTTTTCAGAAAAATT
 AAAAAAGAAAGTTTTTGTAGCTGTTTCAAGTTCAGTTGCCACTAAGAGATTGCACAGTCAAAACGAC
 TCTAAACACACTAGTTTTGGATTCTTAAATATTTTTCAAGAAAAGAATCTTCTCGTTTGAAA

FIGURE 1 (CONT'D)

CTTTGAATTAAAATAAAACACATTTACTCCACAT

Gene 445. >ENST00000292538 cDNA sequence

CGTCTCAATATGTCTCAAGATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCG
CTTTGATTTACAGCAGCTGCAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCG
GCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAA
GAACACTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGA
GATTGATGCACTGAGTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAA
AAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCT
CAAAGTGACGCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGA
AGAATACAACAAGGAATTTGCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAA
AGAGAAAATCCGAGAATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGA
GAAGGAACAGAAGTTACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACA
GATGTCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAGGTTAGAGCCTACAAACAGC
CCTGGAAAAAATCGAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTAC
TGCAAAGGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGC
AGAGGTGGCTCAGAGAGAGGCGGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTC
CCTCCAGCTGGCCTCACAGATCCAGAAGGCACAGACGTGGAGCAGGCCATAGAGGTGCT
GACCCGCTCCAGCCTAGAAGTTGAGTTGGCCGCCAAGGAGCGGGAGATCGCACAGCTGGT
GGAGGACGTGCAGAGACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTCGGCCAGCCA
GATCTCACAGCTTGAGCAGCAGCTGAGCGCCAAAAACAGCACACTCAAACAACCTGGAAGA
AAAACCTCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACATTCTGAAGTC
CATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCTGGAGGT
GCTGTTGCTGGAGAAGAACCGCTCGCTGCAGTCCGAGAACGCCGCGCTGCGCATCTCCAA
CAGCGACCTGAGCGGACGCTGTGCAGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCAC
AGCCACTGAGCAGAGAGAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTAGTC
CATCCAGCGGCCCCGATGCCGAGGGTGCCGCTGAGCACCGCCTGGAGAAGATCCCAGAGCC
CATCAAAGAGGCCACTGCCCTATTCTACGGACCTGCAGCACAGCCAGCGGTGCCCTCCC
AGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCCAGCCAGAGGGAGCGCTTCCGTGC
CCGGAACAGGAGCTTGAGGCCGAGAACCGCCTGGCCCAGCACACCCTCCAGGCCCTGCA
GAGTGAGCTGGACAGCCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCTT
GCAGAGCTACCCTGGCCGGGGCAGCGGCAGTGATGACACGGAGCTGCGGTACTCGTCCCA
GTACGAGGAGCGCCTGGACCCCTTCTCCTCCTTCAGCAAGCGGGAGCGGCAGAGGAAGTA
CCTGAGCTTGAGTCCCTGGGACAAGGCCACCCCTCAGCATGGGGCGTCTGGTTCTCTCCAA
CAAGATGGCGCGCACCATCGGCTTCTTCTACACACTGTTTCTGCACTGCCTGGTCTTCTT
GGTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAGAGGGACTGTGCCACCTTCTGCGC
CAAGAAGTTTCGTGACCACCTGCACAAGTTCCACGAGAATGACAACGGGGCTGCGGCTGG
TGACTTGTGGCAGTGATACCCCGGGGCTCCCCCGTGACAGTGACGGCTGCGCCTCCACC
CCGACTGCTCAGTGCATCTAATCACTTAGACTCCCCTGAAGAATCCCCCATGGAACTGC
CCTTATCCGCTGTCCAGCAGCTGCCAGAGGCCCCAGGTACCTCGGGTCCCCTTGAAAGA
ATGTCTCGGTACATCAGGCCCGCTAGGTCCAGAGAGCGAGCCCCCAATGCCCGGCCAGG
CTAAGCCGAGAGACCCTCTCAGCCCCACCTCAGGTTAGGGCTCTGCCCGCAGCCTGAC
CTCTAGCCCTGGTGGCAGAGGTCCCTCAGCTGCGAGGCTAATTGGGTGACCACCGATTCC
AGCTGCGGTTAATCCAGCTTGGGCCTGTCTGCACTGCGATCCTCTTGGGCTCTCCTAGGA
TCCCCCATGCCCCGTAAGAGGTGGAAGACGCTTCTTCCAGGACAGCAGGCTTTGAGTC
CAGCACCCCCAGCCTGCCTTTGCCACCAGCCCCACCCTGCAGAGTATATGAGGCTTGACA
GAGTCTGCCCCCTCCCCACTGCACCCCAAGAGAGAGAGCCCCAGCCAGCGGAACAGTTT
CTATTACCCCCTCCCTGCCCCCAGACCCATGTGATTTCTGCTTTCTTCTTTAGCAAGATA
TTCTGGTTTCTAGATAAGGAAGAGTCTCTAATGAGCCCCGAGCCCCAGTCTCTTCAGAC
TCATGGATTGGTCTGAGGGGTCTGAACGTCTCCTAGCCAATCAGAACTGGCTGTGGACCA
CCCTAGCACGGCCACCTCTCAGGGCCACTGGCAGGCCTTCCTGAGTTAGATTGTAGTTG
CATATTTAGCTTTGCACATTTGAAATAAACACGGTTGCAGCC

Gene 446. >ENST0000011473 cDNA sequence

GAGCGCACGCGTACACGCGTGCGCAGGGGAAGACCGAGTGCCAGGGGCTGAACCGCAGGG
AAGGGGGCGCGGCGCACGCAGTATGGCGCCCAACATCTACTTGGTTGCGCCAGCGGATCAG

FIGURE 1 (CONT'D)

TCGACTCGGCCAGAGGATGTCCGGCTTCCAGATCAACCTCAACCCGCTCAAGGAGCCACT
CGGCTTCATCAAGGTCCTCGAGTGGATTGCTTCTATCTTTGCTTTTGCCACCTGTGGAGG
TTTTAAGGGCCAAACAGAAATTCAAGTGAATTGTCTCTGCAGTTACTGAGAATAAAAC
TGTTACAGCTACTTTTGGTTATCCATTAGGTTGAATGAGGCATCATTTAGCCACCTCC
AGGTGTAAACATATGTGATGTAAATTGGAAGATTACGTCTCATAGGCGATTACTCTTC
TTCTGCACAATTCTATGTTACCTTTGCAGTCTTTGTGTTCTGTACTGCATTGCTGCCCT
TCTGCTTTATGTTGGCTACACGAGTCTGTATCTGGATAGTCGTAAACTTCCTATGATAGA
CTTTGTTGTTACACTTGTGTGCCACTTTTTTGTGGTTGGTGAGCACTTCAGCCTGGGCTAA
AGCTCTGACAGATATTAAATAGCTACTGGTCACAATATTATTGATGAACTTCGCTTG
TAAGAAGAAAGCAGTACTGTGTTACTTTGGCTCTGTGACCAGTATGGGATCCCTAAATGT
ATCTGTGATATTTGGCTTTCTAAATATGATACTCTGGGGAGGAAATGCTTGGTTTGTGTA
CAAGGAGACCAGCCTACACAGTCCATCAAATACATCTGCCCCCTCATAGCCAAGGAGGTAT
TCCACCTCCTACCGGAATATAATTAAAGGGAGAAATACACTGTATGAAGTATATGTTGAT
ACTATGACATGTTGCCAACACCTTGAGAAGCATTATTTGTTTCTAATAAAAGTAATGGCT
TTGTCAATATATTGGTGGGTTTAAACTTTGCTGCTTTTTTACATAAAGCCTGTGCCTTT
CCTAGAAAGTTAAGATGTAAATGTATTCTCACATGTAAATTTGAAAGTTAGGGGTCTAT
TATGAAATGATACACATTTTTTAAATGAACCATAATTTTTTCACTAAGCTGTTTGCCTTC
CAAAGTGTTTACACCTTAAGCCTTAACATGTATCTTCATTAGAAAACAGTTATATTGTC
ATACCATAGTAGGAAGAAAAACCTTTATTTGGAATATACACTACTGTAAGTTTGTACAGA
TCATATACCTACCACCTGTCTTTGCTTAAAGAGCCTTGATTACATAAATATGTAGGAAAA
AACATATTGAGTTCAAAATTTATATCTAACATTGTTTATGTTATGATTTTTTTTTTAATTG
CAAAGACTAGGTGTATATTTTTTTCTGTTTTTCTAAATGACCCGTGGTACTTAATAGGTG
TACTAAAATTGTGTTGGGAGCAGGGATTTGGAAATTTCTGAGAGATGTGTAGTTAATTTA
GTAATTCTGTTTCATGAGATATGATCTGTTATGCTAGTGGTTAATAGGCTTGCTATGTA
AGTAGAACGTGGCTCAACTAGATATCTTTATATGTATGGGCATTACTCTTAGTGATATTT
GTTTTCTGTCTTTTGTGCTCATGCTGTTTAAAGTGCAGGCTGAGACCCAGCCTCTTTGTA
AGTACAGTAAATAATCCACCGTTTTTTACAGACCTAGTCAAAGGGTTAAAAAATTAA
GATTGCTTTCCATGTTTGAAATTTACCATTGAGAGTCAATGAAGTTGCTATTTTGAGTTT
AGCATTGATATTGTGAAAATAAGTGCAATTTGGATTTTCATGTTTCTTAATATTCATTCTT
GTTTCACAAATGAATGATTAAGGAATTATGCATCATAAAGGAACCTAAGTGAGGTATATG
ATGAGTGTATTGTCTTTGCACACACATATAGGTATATTCTGAATACAAGCTTATTCACAT
TTTGCTTCCTAATCTTTTTGTTGTACAGGGATTAGGTTTCTTATTCTTACAACATGATT
GTTTATATGTGAAGCACATCTTGCTGTTGCCTTATTTTTGATGCTTTTTATTTCATGACAAG
AATTGTCAATATAAGAATGTATATCTTTTTTGCAACCAATTTAATAAAGGAGTTG

Gene 447. >ENST00000249377 cDNA sequence

TATAACGTGAGGGCTGAATGCAGCCCATTCTCTGGAGAACTTCCTCACACACCGCAGCAA
AGAGAAGACTGAAAGACAAACCTGGGTGCAGCCAGAGAGGTCCAGATAGATGAGCTTGTG
GCATCCATTCCCCAAGTTAGCCTAGGGACTCCACGTACCCAGCTGGGTCTCATTGTTTC
CAGAACTGCATTAGTTAAGATTACCCAGACTTGGATTTCAAAGGAATACTTTTATTGTTTC
CGTCTGTAAACACGAAGTAATTGGGGCCAGCTGGATGTGAGGATGCGTGTGGTTACCATTG
TAATCTTGCTCTGCTTTTGTCAAAGCGGCTGAGCTGCGCAAAGCAAGCCAGGCAGTGTGA
GAAGCCGAGTGAATCATGGCCGGGCGGGTGGAGGCCGAGAGGCTCCAACCCGGTCAAAC
GCTACGCACCAGGCCTCCCGTGTGACGTGTACACATATCTCCATGAGAAATACTTAGATT
GTCAAGAAAGAAAATTAGTTTATGTGCTGCCTGGTTGGCCTCAGGATTTGCTGCACATGC
TGCTAGCAAGAAACAAGATCCGCACATTGAAGAACAAACATGTTTTCCAAGTTTAAAAAGC
TGAAAAGCCTGGATCTGCAGCAGAATGAGATCTCTAAAATTGAGAGTGAGGCGTTCTTTG
GTTTAAACAACTCACCACCTCTTACTGCAGCACAACCAGATCAAAGTCTTGACGGAGG
AAGTGTTTATTACACACCTCTCTTGAGCTACCTGCGTCTTTATGACAACCCCTGGCACT
GTACTTGTGAGATAGAAACGCTTATTTCAATGTTGCAGATTCCCAGGAACCGGAATTTGG
GGAACACGCCAAGTGTGAAAGTCCACAAGAACAAAAAATAAAAACTGCGGCAGATAA
AATCTGAACAGTTGTGTAATGAAGAAGAAAAGGAACAATTGGACCCGAAACCCCAAGTGT
CAGGGAGACCCCAAGTCATCAAGCCTGAGGTGGACTCAACTTTTTGCCACAATTATGTGT
TTCCCATACAAACACTGGACTGCAAAAGGAAAGAGTTGAAAAAGTGCCAAACAACATCC
CTCCAGATATTGTTAACTTGACTTGTATACAATAAATCAACCAACTTCGACCCAAGG

FIGURE 1 (CONT'D)

AATTTGAAGATGTTTCATGAGCTGAAGAAATTAAACCTCAGCAGCAATGGCATTGAATTCA
TCGATCCTGCCGCTTTTTTAGGGCTCACACATTTAGAAGAATTAGATTTATCAAACAACA
GTCTGCAAACTTTGACTATGGCGTATTAGAAGACTTGTATTTTTTGAAACTCTTGTGGC
TCAGAGATAACCCTTGGAGATGTGACTACAACATTCCTACTCTACTACTGGTTAAAGC
ACCACTACAATGTCCATTTTAATGGCCTGGAATGCAAAACGCCTGAAGAATACAAAGGAT
GGTCTGTGGGAAAATATATTAGAAGTTACTATGAAGAATGCCCCAAAGACAAGTTACCAG
CATATCCTGAGTCATTTGACCAAGACACAGAAGATGATGAATGGGAAAAAAACATAGAG
ATCACACCGCAAAGAAGCAAAGCGTAATAATTACTATAGTAGGATAAGGTAGAAATTGTT
CTGATTGTAATTAGTTTTGTATTTTCTATACTGGTGTAGAAAACATATGTTTACATTTG
ATTAAGTGTGTTGCCTATTTATGACAGGGTAATCCAGCTAAAGGAAGCTTTCTTTAATTAT
AAGTATTATTGTGACTATTATAGTAATCAAGAGAATGCTATCATCCTGCTTGCCTGTCCA
TTTGTGGAACAGCATCTGGTGATATGCAATTCACACTGGTAACCTGCAGCAGTTGGGTC
CTAATGATGGCATTAGACTTTTCATAATGTCCTGTATAAATGTTTTTACTGCTTTTAGAAA
ATAAAGAAAAAAACTTGGTTTCATGTTTA

Gene 448. >ENST00000287126 cDNA sequence

GCCTGGCTCCCTCTCGCTGAGACACACATACACTCACACATACACAACCCGGCAGGCTCG
TCTGAACCTGAAGACACCCACATTCCAAGATGCCCAGGTTCTTGGAATGCCTGGGGT
TCTTCGATCCGGAATCCTACCGGCATCCTCCTAGGGAGGGATTATTATTATTATTTTT
CTTTAATCTGGAAGAGAAGAGAAACAAGTTGTGCTTTTCCCCCTTCTTCTTGCTAAATGC
CATGGATATAACTGAATAAGCGGCTCAGGGCTTTCCCCGCGTGGACGTCCGAGGCCACCA
TCTGCCTGCATTGCGCGGAGCCGCGGAGGGTTTAGCTCGAGTCTGTCTCGGGCGGGGAA
GGATGCGTGGCCGAGCCGGGGAGCCCGGGCGCCCCGCGGAGCCGGCCTCGGTGCCACCCA
GCCGGGGGTAGATGCTGCCTCGCCAGGCGCTGAGTGACCAGACCATGGAGACCCTGCTT
GGTGGCCTGCTAGCGTTTGGCATGGCGTTTGGCGTGGTTCGACGCCTGCCCCAAGTACTGT
GTCTGCCAGAATCTGTCTGAGTCACTGGGGACCCTGTGCCCCCTCAAGGGGCTGCTCTTT
GTACCCCTGATATTGACCGGCGGACAGTGGAGCTGCGCCTGGGCGGCAACTTCATCATC
CACATCAGCCGCCAGGACTTTGCCAACATGACGGGGCTGGTGGACCTGACCCTGTCCAGG
AACACCATCAGCCACATCCAGCCCTTTTCTTTCTGGACCTCGAGAGCCTCCGCTCCCTG
CATCTTGACAGCAATCGGCTGCCAAGCCTTGGGGAGGACACCCTCCGGGGCCTGGTCAAC
CTGCAGCACCTTATCGTGAAACAACAACAGCTGGGCGGCATCGCAGATGAGGCTTTTGAG
GACTTCCTGCTGACATTGGAGGATCTGGACCTCTCCTACAACAACCTCCATGGCCTGCCG
TGGGACTCCGTGCGACGCATGGTCAACCTCCACCAGCTGAGCCTGGACCACAACCTGCTG
GATCACATCGCCGAGGGCACCTTTGCAGACCTGCAGAACTGGCCCCGCTGGATCTCACC
TCCAATCGGCTGCAGAAGCTGCCCCCTGATCCCATCTTTGCCCGCTCCCAGGCTTCGGCT
TTGACAGCCACACCCTTTGCCCCACCCTTGTCTTTAGTTTTGGGGGTAAACCACTTCAC
TGCAATTGTGAGCTTCTCTGGCTGCGGAGGCTCGAGCGGGACGATGACCTGGAAACCTGT
GGCTCCCCAGGGGGCCTCAAGGGTCTGCTACTTCTGGCATGTGCGTGAGGAGGAGTTTGTG
TGCGAGCCGCCTCTCATACCCAGCACACACAAGTTGCTGGTTCTGGAGGGCCAGGCG
GCCACACTCAAGTGCAAAGCCATTGGGGACCCAGCCCCCTTATCCACTGGGTAGCCCCC
GATGACCGCCTGGTAGGGAACCTCCTCAAGGACCGCTGTCTATGACAATGGCACCCCTGGAC
ATCTTCATCACACATCTCAGGACAGTGGTGCCTTACCTGCATTGCTGCCAATGCTGCC
GGAGAGGCCACGGCCATGGTGGAGGTCTCCATCGTCCAGCTGCCACACCTCAGCAACAGC
ACCAGCCGCACTGCACCCCCCAAGTCCCGCCTCTCAGACATCACTGGCTCCAGCAAGACC
AGCCGGGGAGGTGGAGGCACTGGGGGCGGAGAGCCTCCCAAAGCCCCCGGAACGGGCT
GTGCTTGTGTCTGAAGTGACCACCACTCGGCCCTGGTCAAGTGGTCTGTGAGCAAGTCA
GCACCCCGGTGAAGATGTACCAGCTGCAGTACAACCTGCTCTGACGATGAGGTACTGATT
TACAGGATGATCCCAGCCTCCAACAAGGCCTTCGTGGTCAACAACCTGGTGTGAGGACT
GGCTACGACTTGTGTGTGCTGGCCATGTGGGATGACACAGCCACGACACTCACGGCCACC
AACATCGTGGGCTGCGCCAGTTCTTCACCAAGGCTGACTACCCGAGTGCCAGTCCATG
CACAGCCAGATTCTGGGCGGCACCATGATCCTGGTCATCGGGGGCATCATCGTGGCCACG
CTGCTGGTCTTCATCGTCATCCTCATGGTGCCTACAAGGTCTGCAACCACGAGGCCCCC
AGCAAGATGGCAGCGGCCGTGAGCAATGTGTACTCGCAGACCAACGGCGCCAGCCACCG
CCTCCAAGCAGCGCACAGCCGGGGCCCCCGCCGAGGGCCCGCGAAGGTGGTGGTGC
AACGAGCTCCTGGACTTCACCGCCAGCCTGGCCCCGCGCCAGTGACTCCTCTCCTCCAGC

FIGURE 1 (CONT'D)

TCCCTGGGCAGTGGGGAGGCTGCGGGGCTGGGACGGGCCCCCTGGAGGATCCCACCCTCC
 GCCCCGCGCCCCAAGCCCAGCCTTGACCGCCTGATGGGGGCCTTCGCCTCCCTGGACCTC
 AAGAGTCAGAGAAAGGAGGAGCTGCTGGACTCCAGGACTCCAGCCGGGAGAGGGGCTGGG
 ACGTCGGCCCCGGGGCCACCACTCGGACCGAGAGCCACTGCTGGGGCCCCCTGCGGCCCGG
 GCCAGGAGCCTGCTCCCCTTGCCGTTGGAGGGCAAGGCCAAACGCAGCCACTCCTTCGAC
 ATGGGGGACTTTTGCTGCTGCGGCGGCGGGAGGGGTCGTGCCGGGCGGCTACAGTCCTCCT
 CGGAAGGTCTCGAACATCTGGACGAAGCGCAGCCTCTCTGTCAACGGCATGCTCTTGCCC
 TTTGAGGAGAGTGACCTGGTGGGGGCCCGGGGACTTTTGGCAGCTCCGAATGGGTGATG
 GAGAGCACGGTCTAGGTGGGGGTGGGCATGCTCCCTTTCTGTGCGCAGGGTGGGAGAAG
 GGGAAAGAATCTCACTGGCAAGTGTGTGGAGTTTCCATGGTGATGTTTACATCCAGGG
 ACAGTTTCGTCTCCCTGTCAATGGCCTCGTGTCCCCCCTACCCGCAACACCCACATCA
 CCTCCCCACCACCCGGCCGGGTGTGCTCAGGGAATGTGGACTCGCTCAAATGCCGGACT
 GAGCCCTGAGTGTGTTGGAAAGGCGAGACTCCGCCTTTCTAATCACAATGTAGCCTACAA
 GCAAGCGGCTTTGGATTGCTTATG

Gene 449. >ENST00000313221 cDNA sequence

GAATGCGAGAAAGTGAAGTCAAATTCGGACTTGTAGGCGATCAGGGCTGAAGACGCTGAT
 TAGAGAGAAAAAGAGGGTGATGGTGGCTGCACGTGGGGAATGGGTGACATCTCCAGGG
 GGAATGAGCACAAGGCCAGATCGGAAACCCCAAACCTCAGATTTTAAGGTTTGGACAAGA
 AGTACCTGAGGAGTGGAGGAGTGAGAAAGAAGTGCCAGAGAGCCTGAGGAGGAAAATCAG
 CAGACTGGCATTATGAAGAATGTTGTGAGAAGTAGGGAGTAGGCACTAGTCACCTAAGAT
 AAGGAGCTGGATTCTGCCAAGGGCACTGTTATGTGGTATACTTGTTACATGTCCTGAGG
 ATCCGCTGAGGTATTTAGAGGGAATGATCATGGTTATAATCAAAAGTGGTCTTCAGAATC
 TTCTTTTGATGACTCCGGAATTGATGATAAAAGCCTGTAGCTTTTATACTGGACATTTAGT
 AAAGACTCATTTTTTGCACTTGGAGAGACATAGCTCGTACAAATGAAAATGTGTCCTGGC
 TGAAAAAATGAACAGAGCAGTGACATGCTACAATTTAGACTTCAAAAATCTGTATTTCA
 TCACTGGCACTCTTATATGGAAGACCAGAAAGAAAACTTAAAAATATTCTATTGCGGAT
 ACAACAGATCATCTATTGTCAACAGCTAACCATTATCCTAACAAAATGGCGGAATACAGC
 AAGACATAAGAGTAAAAAGAAAGAAGATGAGCTGATATTAACATGAACCTCAATTGAA
 AAAATGGAAAAATAGGTTAATACTCAAAAGAGCTGCTGCAGAAGAATCCAATTTTCTGA
 ACGAAGTTCTTCTGAAGTCTTTCTTGTAGATGAGACTCTAAAATGTGACATTTCACTGTT
 ACCTGAAAGAGCAATATTACAGATTTTCTTCTACCTCAGTTTAAAGATGTGATAATATG
 TGGTCAAGTTAATCATGCCTGGATGTTGATGACACAACCTAAACTCACTGTGGAATGCTAT
 TGATTTTTCTCAGTGAAAAATGTGATTCCAGATAAATATATAGTGTCTACTTTGCAAAG
 GTGGCGTTTTAAATGTGCTGCGTTTTGAATTTTCTGTTGTTGCTTCTCCGACCCAAAACCTT
 CAGATCTGTGAGCCACTGTAGGAACTTGCAAGAGTTGAATGTCTCTGACTGCCCAACATT
 CACAGATGAATCAATGAGACACATTTCTGAGGGCTGCCCCGGGGTCTGTGTCTCAATCT
 GTCTAACACAACCTATCACCAACAGGACGATGCGACTCCTGCCGAGGCACTTCCACAACCTT
 ACAGAATCTTAGTTTGGCTTATTGCAGACGGTTACAGACAAAGGCTTACAGTACCTGAA
 CTTGGGGAATGGATGCCACAAGCTCATCTATCTGGACCTCTCTGGCTGCACCCAGATTTT
 AGTCCAAGGCTTCAGGTACATTGCAAACAGCTGCACTGGAATTATGCATCTTACCATTAA
 TGACATGCCAACTCTGACGGACAACCTGTGTAAGAGTAGGTATTGAAAAATGCTCTCGTAT
 TACATCGCTGGTTTTCTGCTGGTGACCGCATATCTCCGATTGTACTTTAGAGCTCTTTC
 TGCTTGTAAACTCAGAAAGATCCGATTTGAAGGAAATAAAAGGGTTACTGATGCATCCTT
 CAAATTTATAGACAAGAATTATCCAAATCTCAGTCACATTTATATGGCTGACTGCAAGGG
 AATAACAGACAGCAGCCTCAGATCCCTTTACCTTTGAAGCAACTGACTGTGTTGAATTT
 GGCAATTTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTTGATGGTCCTGCAAG
 CATGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGTGATGCCTCTGTTAT
 GAACTATCTGAGCGCTGCCCTAATTTAAACTACTTGAGTTTACGAAATTGTGAACATTT
 GACTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGGTATCAATAGATCTCTC
 TGGAAACAGACATCTCTAATGAGGGTTGAATGTGCTTTCCAGACATAAAAAATTGAAGGA
 ACTTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATTGAGGCATTCTGCAAAAG
 CTCACTGATCTTGGAACATTTGGATGTCTTATTGCTCCAGCTGTGAGATATGATTAT
 CAAAGCACTGGCCATTTACTGCATTAACCTCACATCTCTCAGCATTGCTGGCTGTCCAAA
 GATTACTGACTCAGCAATGGAGATGTTATCGGCAAAATGCCATTACCTGCACATTTTGGAA

FIGURE 1 (CONT'D)

TATCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTTCAGATAGGCTGCAA
 ACAACTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAGAAGGCAGCTCAAAG
 AATGTCATCTAAAGTTCAGCAGCAGGAATACAACACTAATGACCCTCCACGTTGGTTTGG
 CTATGATAGGGAAGGAAACCTGTACAGAGCTTGACAACATAACATCATCTAAAGGAGC
 CTTAGAATTAACAGTGAAGAAAGTCAACATACAGCAGTGAAGACCAAGCAGCGTGACCTTC
 AGCCTCAAGCAGGAAGAACAAGAAATCAAGAACTTGGCAAGTTTTCTCCATTTGTTGCAA
 GTATGTTTTACTAGCTGAATCTCAATAACAATGTAAACAAGCAAC

Gene 450. >ENST00000313196 cDNA sequence

GCCCCGCCCCCTAGTCCCAGCGCGGGGAGGGTACTATCGCAGCTTCTCCGTGAGGCTTGG
 GCCATGGCCTCGCTACGCAATGCCAACCCGAGGCTGAAGAACTACTTCAAGGAGAACTAC
 ATTCTCAGGTCTGCGAGGCACTGTTATGTGGTATACTTGTACATGTCCTGAGGATCCG
 CTGAGGTATTTAGAGGGAATGATCATGGTTATAATCAAAAGTGGTCTTCAGAATCTTCTT
 TGATGACTCCGAATTGATGATAAAAGCCTGTAGCTTTTATACTGGACATTTAGTAAAGA
 CTCATTTTTGCACTTGGAGAGACATAGCTCGTACAAATGAAAATGTCGTCTGGCTGAAA
 AAATGAACAGAGCAGTGACATGCTACAATTTGAGACTTCAAAAATCTGTATTTTCACTACT
 GGCACCTCTTATATGGAAGACCAGAAAGAAAAAATTAATAATATTCTATTGCGGATACAAC
 AGATCATCTATTGTCAAGCTAACCATTATCCTAACAAAATGGCGGAATACAGCAAGAC
 ATAAGAGTAAAAAGAAAGAAGATGAGCTGATATTAATAACATGAACCTTCAATTGAAAAAAT
 GGAAAAATAGGTTAATACTCAAAAGAGCTGCTGCAGAAGAATCCAATTTTCTGAAACGAA
 GTTCTTCTGAAGTCTTTCTTGTAGATGAGACTCTAAAATGTGACATTTCACTGTTACCTG
 AAAGAGCAATATTACAGATTTTCTTCTACCTCAGTTTAAAAGATGTGATAATATGTGGTC
 AAGTTAATCATGCCTGGATGTTGATGACACAATACTAACTCACTGTGGAATGCTATTGATT
 TTTCTCAGTGAAAAATGTGATTCCAGATAAATATATAGTGTCTACTTTGCAAAGGTGGC
 GTTTAAATGTGCTGCGTTTGAATTTTCTGTGGTTGTCTTCTCGACCCAAAACCTTCAGAT
 CTGTCAACAGCAGCCTCAGATCCCTTTACCTTTGAAGCAACTGACTGTGTTGAATTTGG
 CAAATTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTTGATGGTCTGCAAGCA
 TGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGTGATGCCTCTGTTATGA
 AACTATCTGAGCGCTGCCCTAATTTAACTACTTGAGTTTACGAAATTGTGAACATTTGA
 CTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGGTATCAATAGATCTCTCTG
 GAACAGACATCTCTAATGAGGGTTTGAATGTGCTTTCCAGACATAAAAAAATTGAAGGAAC
 TTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATTGAGGCATTCTGCAAAAGCT
 CACTGATCTTGGAAACATTTGGATGTCTTATTGCTCCAGCTGTGAGATATGATTATCA
 AAGCACTGGCCATTTACTGCATTAACCTCACATCTCTCAGCATTGCTGGCTGTCCAAAGA
 TTAAGTACTGAGCAATGGAGATGTTATCGGCAAAATGCCATTACCTGCACATTTTGGATA
 TCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTTCAGATAGGCTGCAAAC
 AACTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAGAAGGCAGCTCAAAGAA
 TGTATCTAAAGTTCAGCAGCAGGAATACAACACTAATGACCCTCCACGTTGGTTTGGCT
 ATGATAGGGAAGGAAACCTGTACAGAGCTTGACAACATAACATCATCTAAAGGAGCCT
 TAGAATTAACAGTGAAGAAAGTCAACATACAGCAGTGAAGACCAAGCAGCGTGACCTTCAG
 CCTCAAGCAGGAAGAACAAGAAATCAAGAACTTGGCAAGTTTTCTCCATTTGTTGCAAGT
 ATGTTTACTAGCTGAATCTCAATAACAATGTAAACAAGC

Gene 451. >ENST00000323915 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAGATG
 GAGTGGTGGGACAAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
 GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
 CGGCGAGTGTGCTCGTGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
 CCTGTCAATTAAGATTCTTGGCCTGGGACAAAGGTCTGAGGGTGTGCGACAAGTATCTC
 CTGGCTATGGTCATAGTGTATCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAATGCAT
 TCATTTCTTCTGGCTCTGTG

Gene 452. >ENST00000275580 cDNA sequence

CGCTTCCTGCGCCTCTTCAGGTACCGCTTGCTCTAGTTCCAGGCTTTGGCCTCTAGTG
 GATGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGG
 GCGGGAGCTGTGCGGCCAGGGTTCGCGCGGGCCGGGTAGAGGCTCGAGCCGGGACCCCC
 GAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAGGCGGGAGGTGGTGGC

FIGURE 1 (CONT'D)

GGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCGTGTGTGTCTCGGCGGCCTGGCGC
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCG
CCTGGATTTGCCCCGTCCGGCCCGGGCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGA
CGGGAGGGGACTTCGCGAGCAGACGCGCGCGCCAGCGACAGCACCGCCCCGGCCTCTCGG
GAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGTCTATCAGCCACAGTCTCTGCAAG
TTTCCAAGAGCAGCAGAAAATGAACACATTGCAGGGGCCAGTGTCAATTCAAAGATGTGGC
TGTGGATTTTCAACCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAACATACGG
GGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGTCTTCTTCTTTTCCATT
AACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTTGGAGCAGGGAGAGGAGCT
GTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGAACCTGCTAAGGCCATCAA
ACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAG
CACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCT
AAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGA
AGAAGAAAACCTTCGAAGGCTTAATCTCTTTCAGCTCTGAAACATCACACATCTAA

Gene 453. >ENST00000323689 cDNA sequence

TGCATCCTTGGAGAGAGCTGAGAGCTCGAGGTACAGAACCTGCTAAGGCCATCAAACCTA
TTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTG
CGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAAGTAAGGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTT
GGGACTCAACTGGTGTTTTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCC
ACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATA
AGGAATTTCAAAGGAATATTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGAT
CGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTG
AAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAG
GACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAAC
TTCGAAGGCTTAACCTCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACT
CGGGTTGAAACTTTTGGCTTTTCGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGAT
GTCACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCAC
GATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTG
AAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAG
AAACGTGCCTGCTTCCCTTTCGCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCA
GCCATGCTTCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGC
TCCTTGGAGGACAACGTGATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCT
AGATGA

Gene 454. >ENST00000306533 cDNA sequence

GAGAGCTGAGAGCTCGAGGTGAGCTGGGCTCGCGGTGCCCCCTCTCGCTCGCCCTCTTTG
AGAACCACGGCTTCCGACCTCCCTGGAAATGGGGGGAACATGGCCGAGGCGCGTGGGAGG
CCGCCTCGTGGAGGCCCCGGAGCGGCATCCTCAGCGCCCCAGCGATCCGGTGCCATTAG
AACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGC
CGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTG
GTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAG
GCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATCTCTTTCAGCTCTGAAA
CATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTT
CGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTCACCATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCAACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGGTAC

Gene 455. >ENST00000335315 cDNA sequence

ATGCCCGGCAGACCCCTACCGACGGCGGCATTCCATTCTGGGGCCACGAGGAGGCACTCA
TCGTTTTCGTTCCAACCGCCGCCAACGGCCCTGGCCCTCGCGAGCTCTGGAACTACAGAGG
TCGCACGGTGAGTTGCCAGGTGTGGCCCGTAATCGGAGCGCACAAAACATGATGGGACAC
GTAACGGGACCACACAGGGCACATTGGGCACCTGCAGGGGCGCGAGGTGGCGGCACGTAA

Gene 456. >ENST00000257622 cDNA sequence

FIGURE 1 (CONT'D)

GGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTTCCCATTAAACAAGATATG
ATATCACCAAGCCAAACGT/CATCATTAAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGG
GAGGTGAATTTCCATGTCAACATAGTCCAGGGATTGTGGGACTTTACCAAATCGGTTTGT
AATAACACCTAGAACGCTATCCGATCCATCAGGCCAGTATTCTGTCTGGGGTACT
TCCCACCGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCCTCGCAACTCCAG
GATGGTGTGTAGCCCAGTGAAGTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTTC
TGCGATACCAGAGCAGATAATCAGCTCAACACTGTCTCACCATCAAGTAACGCCCCAGA
CCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAGAAGGAGAAGAAAAGGACAGT
GGAGGAAGAAGACCAAATATTCTTGATGGCCAGGAAAATAAAAGAAGGCGCCATGATAG
CAGTGGCAGTGGACATT/CAGCATTTGAGCCCCCTGGTGGCCAATGGAGTCCCCGCTTCTTT
TGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCTCAATTCTCAGAGCTCAGATGACCACTT
GAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCAT
CCCTAGCTCCAGCCGCAATGCCATTACCAGTTCTTACAGCTCCACTCGAGGCATCTCACA
GCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCCAGCCTCCTCCCGCTC
CCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGT/CATCATTCCAG
TTCTTCAACTCCATTGGCAGCAGACAGGGAGTCCCAGGGAGAAAAGGCTGCAGATACAAC
CCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAA
GCGGAAAGTT/CAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCTCCACCTCC
CCAGCTTGGCTATT/CAGTCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACA
GTGGTTCAACCAGGCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGAC
CCCACCTATCACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCC
ACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCA
GACTCCCCCGAGCCTGCCACCTGCCAGAATCTGCTGGAGCAGCAACCACTGAGGCCCT
CTCACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGTTTATCAGAGTCAGGGCCGCC
AGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCTGGGGCTGAT
CCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTCAGGCAGA
GACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGCTTCCT
GTTTGGAAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGCACC
TCCCATGTTCAAGCCCATTTT/CACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACC
GCCTGGCCCTT/CAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAG
CACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCC
CTTGCCCTGCTCCCTTCTTCAAGCAGACAACTACTCCCGCCACTGCTCCCACCACTGC
CCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAG
TCCATCCACAGACTCTGCTTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAG
CAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTTCCTCTTCGG
GGCGCCCCAGGCCTCTGCTGCCAGCTT/CACCCCGCCATGGGCTCCATATTCCAGTTTGG
CAAACCTCCTGCCTTGCCCAACCAACCAACAGTCACCACTTCAGCCAGTCCCTGCACAC
TGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTGGCAGCACCT
CGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTT/CAGTAACACGAGCAC
CCCCACGTTCAACATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGG
AGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCC
GGCCCTTGCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGC
TGCACCCACACCTGCACCTCCGTCCATGATCAAGGTCGTGCCTGCGTACGTGCCTACGCC
CATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTTGAAAGCCACGGCTTC
GGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCTTTGGCGGCTCCACTGCTGTCTTCTT
CGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCAACCCAGACCGCCAGCAGCGGGAGCAG
CAGCTCGGTGTTTGGCAGCACAACACCATCACCTTCACGTTTGGGGGTTCGGCAGCCCC
CGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCAGGCTCCAGCACCACCACCGG
AGCTTT/CAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTCGCAGG
GGGCTTAGGT/CAGAACGCCCTGGGCACCAACCGCCAGAGCACACCGTTTGCCTTCAACGT
GAGCAGCACAACCTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCT
GAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTC
AGCACCCGCCCAAGGCTTTGTTGGTGTTCACCTTTCGGATCGGCGGCCCTTTCATTTTC
CATTGGTGCGGGATCCAAGACCCCAGGGGCTCGACAGCGACTGCAGGCCCGAAGGCAGCA

FIGURE 1 (CONT'D)

CACCCGCAAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCACCCCTTCCCTAAATCT
 GGACCTTGGCACCTGCTAGGAAGAGCCTTGGACCCCTTCCAGTTGCGTAAAGCAAACCTAC
 CCCGGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGGGCCCTTTCCCTTCT
 GGAGGAAGCACAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGCCAAAGCCCGGGACC
 TCTACTTGAACAGTTCTACTGGGGAGGCTGGAGAACTAAGGAAACACCTGTACATAGTGT
 CCGCTGCCCTGACTCCCGCTTAGCACACCCCTTAGGCAGGCGCCCTTCCACCTTTCCCCG
 AGACCGTCGTGCTGGAGGGGGCAGGGTCCAGCCCGCTGGATCGGTGGTGTGCACCTGA
 TGGGATTTGGGAAATGGGCTATCCGTAAAGCTTTATCTTGCTTGGCTTAGCTGTGAGAAG
 TGGTTCTCTTCTCTGGTCCCTTCTGGGGACTCTGTTTCCCATTCTTGCTGCTGTGTC
 CCTCACCAGTTCTTGCAGGATTCTTCTGTTTTTAAATGCCCTTGAATCTAGCTTTGCCT
 TGGAGACCCAGTGGGTGCTGCTCCTGCCGTTTTCTTCTGCCAAGCCTGAATCAATGTT
 TCATCTCCAACCCCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAAGACTGTTAGCC
 TGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCCACCGCTGCTT
 CAGCTGCCTCCTCGCCAGCTACCCCTTTGGCCCCATTGGGCCCTCGTCTGCCTCTCCAGG
 ATTGTATGTTTTCAAGCCTTGTCTGTGTTTCTTTGTCTGACGCTCTGTGTATTGCTCTTT
 GAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGGTAGTGCCGGAC
 TTCCTGTTTTCAAGTTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAGCACCACTTGAC
 GGCTACAAGTGCCGACTCCTGAATTTTCCCATGGTGTCTGACTTCAAGGGCTGGCAGCC
 AGGGAGAATGGGCCCAGGGGAAGCAAAGACCTCTTCCCTCTGCCGTTTTCTGTCCCACTTA
 ACTGACCTCACTGGAGGCTACATCACCCAAAGTAGATGTTAGAAAACCTAAATTAATGAA
 CCATATTTTTTAAATCCTATTTTTTCCCAAACAGGGCCCTCTGCAGCCCATCTTTCTTTC
 CGTCTTCTGAAACCACATACCCACAGGCCCAAGCGCCTTGCTGCCACGCCCAACCTCTTT
 GGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 457. >ENST00000285805 cDNA sequence

GAGCATGATGGGGCATGTGCGGGAGCGCCAGGCGGGGCATGTAACCAGAGCGTGCGGGC
 ATGATGGGGCACGGACATGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAGG
 ATGGGGCATCTAACTGGAGCGACAGAGAGCACGATGGGGCACTTACAGGGGCCGGAGGCT
 GGCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGGC
 TTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACT
 CCTACTGCAAGGGCTGCCTGGTTTTCCCTGTCTTACCACCTGGACACCAAGGTGCGCTGCC
 CCATGTGCTGGCAGGTGGTGGACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGG
 TGATCGAAGCCCTGAGGCTCCCTGGGGACCCGGAGCCCAAGGTCTGCGTGCACCACCGGA
 ACCCGCTCAGCCTTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGC
 TGGGCTCCCAACACACCCCGGTACGCCCCGTCTCCACCGTCTGCAGCCGCATGAAGG
 AGGAGCTCGCAGCCCTCTTCTCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCA
 TCGCCAAACTGGTGAAAAACCGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGG
 TGATCCGCCGCGAGTTCCAGGAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCC
 TGGAGGGGATAGGGGGTCAACCCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGC
 AGGCCCAGGGAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTCGGAA
 ATGAGGACCACCATGAGTTTCATCTGGAAGTTCCACTCCATGGCCTCCAGGTAATAACCTT
 GGAGAGAGCTCAGCCAGGGTCTGGTGGCTGCGGGCAGGGCATCTCAGCTCCACTGGTTTC
 CTCCATTAGCTTAAACCAGCGCCTCCCAAGCAGCTGCCTATAGCTGGCTCTATAACTGAG
 CCTGGGGAAGATAGAGGAAAGTCACGTCCCTGCCTTCAAGGGTCTCGCAGACAGGTGGGG
 AGGCAGATGGTGAACTGTGGGTACCTAGAACAGCAGAAGTTCACTCAAGCTACAGAAATA
 CTAGAGGAGGGTAGCTCATGCCTGCAATCCAGTACTTTGGGAGGCCAAGGCAGGAGTAT
 TGCTGGAGGCCGGGAGTTGAGACAGCCTGGCCAATGTAGTAACACCCCGTCTCTACA
 AAAAATACAAAATAAAAAAATTAGTTGGG

Gene 458. >ENST0000022857 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGGAACATGGGGCTGTACGCTGCGGTGGCA
 GCGTGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC
 AACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC
 GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCGAAGAAGCTGCAGCCGCAC
 CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTGAGGGGGTGGGGGCCAA
 TGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT

FIGURE 1 (CONT'D)

TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
 CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
 TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCC
 CTAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTGCC
 CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
 GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTGCATGGATGCCT
 GTGCCACCCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAG
 ATCTTTGCCTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGG
 GCTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGAT
 CCGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGCAGTGGCTCGGGTATG
 CCGAGCAGACAGCTGGAGGAGCCCGGGGAGGGACACCTAGCCCGGTGCGTCTGCATGCC
 CTGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCTTCCCTGCAGCGG
 CTCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCG
 CTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGA
 GGCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTT
 AGCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAG
 GCCAAAGCATCAGCACCAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGAGCA
 AAAAGCTGCAGCCGGTGCTTGCACACCGCCTTGCACATAGCAGAGGCTCCGGGCTCACTC
 CTTCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAAGACCCTGGGCCCTCACCGC
 AGGCAGCAGTTTGCCTTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTG
 GTGAGCAAAAGTGTTGCCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 459. >ENST0000330999 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGAACATGGGGCTGTACGCTGCGGTGGCA
 GCGTGCTGGCCGGCGTGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC
 AACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC
 GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCAGAAGAAGCTGCAGCCGCAC
 CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCAA
 TGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT
 TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
 CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
 TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCC
 CTAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTGCC
 CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
 GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTGCATGGATGCCT
 GTGCCACCCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAG
 ATCTTTGCCTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGG
 GCTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGAT
 CCGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGCAGTGGCTCGGGTATG
 CCGAGCAGACAGCTGGAGGAGCCCGGGGAGGGACACCTAGCCCGGGCTCGTCTACTCC
 ATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCGCTGCAGCAGAAC
 CCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAGGCCTGAGCACG
 TTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTTAGCGGTGGCTTC
 TTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGGCCAAAGCATCA
 GCACCAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGAGCAAAAAGCTGCAGC
 CGGTGCTTGCACACCGCCTTGCACATAGCAGAGGCTCCGGGCTCACTCCTTCTGGTGGG
 AAAGGAAGATGCCTGTCTCTCCGTGGAAGACCCTGGGCCCTCACCGCAGGCAGCAGTTT
 GCGTTTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTGGTGAGCAAAAGT
 GTTGCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 460. >ENST0000329896 cDNA sequence

GCCCAAGCAAAGCAGGATTTGTTTCACTACTCCAGATCGTTAGGGTGCTGACTGAG
 GATGAGATGGGGCACCCAGAGACAGGAGATGCTACTGCCCGGCTCAAGGAGGTCTGGAG
 TACAATGCCATTGGAGGCAAGTATCACCGAGGTTTGATGGTGCTAGTAGCGTTCCGGGAG
 CTGGTGGAGCCGAGGAACTGGATGCTGATAGTCTCCAGTGGGCACCGACTGTGGGCTGG
 TATGCGCAACTGCTGCAAGCTTTCTTCTGGTGGCAGATGACATTATGGATTATCCCTT

FIGURE 1 (CONT'D)

ACCTGCCAGGGACAGATCTCCTGGTATCAGAAGCTGGGCATGGGTTTGGATGCCATCAAT
GATGCTATCCTTCTGGAAGCATGTATCTACTGCCTGCTGAAGCTGTATTGCCGGGAGCAG
CCCTATTACCTGAACCTGATGGAGCTCTTCCAGCAGAATTCTTATCAGACTGAGATTGGG
CAGACCCTCGACCTCATCACAACCCCCCAGGGCAATGTGGATCTTCGCAGATGCACCGAA
AAAAGGCACAAATCTGTTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTGT
GCTGCAGCCATGTACATGTCAAGAATGGATGACAAGAAGGAGCACACCAGTGCCAAGAAG
ATCCTGCTGGAGATTCAAGAGTTCTTTCAGATTGAGGATGATTACCTTGACTTCTCTGGG
GACCCAGTGTGACTGGCAGAGTTGGCAATGACTTCAGGACAACAAATGCAGCTGGCTG
GTGGTTCACTGTCTGCTACAGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTAC
AGGCAGAAGGAGGCCGAGAAGGTGGCCCCGGGTGAAGGCACTATACGAGGAGCTGGATCTG
CCAGCCGTGTTCTTGCAGTATGAGAAAGACAGTTACAGCCACGTTATGGGTCTCATCGAA
TAG

Gene 461. >ENST00000305954 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCTGAGTGCAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTTCTTTGTGGAGAGCAAGCTCCACGACCAGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG
CTGGACTCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCTGTTGGCCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCCAAACGTATTGGTTTCGATGAAGGAAGGGCCCATGGTTCTGCCACTGG
CCCTGGACACCCAGTGTGGTTTCCCGTGAAGTCCCCCTGGACTGAGTGGCGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCTCTCGGGGCACAGCCAGATCCACC
CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCCCTCACAGAGGATTATCACTCTGTTT
AGAATCCCCAGGACTCCCTAGGGAAGGAGGTCCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCCTAAACCA
GGTGGTCAATCAGGGAGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGCAGTGAGATT
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGTCTGGGGGCCTCACC
CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT
CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAACAGCAGCCAATCCATT
TATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGTGTTGAATGAGAGTCTCATCTT
GGCTAGGCACCATGGCGCAACAACTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAA
GAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAC
TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGG
ATTGCTTGAGCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAG
CCTGGGTGACAGAGCAAGACCCTGTCT

Gene 462. >ENST00000257652 cDNA sequence

ATGGAGCTGAGCTATAGGCTCTTCATCTGCCTCCTGCTCTGGGGTAGTACTGAGCTGTGC
TACCCCCAACCCCTCTGGCTCTTGCAGGGTGGAGCCAGCCATCCTGAGACGTCCGTACAG
CCCGTACTGGTGGAGTGTGAGGAGCCACTCTGATGGTCATGGTCAGCAAAGACCTTTTT
GGCACCGGAAGCTCATCAGGGCTGCTGACCTCACCTTGGGCCAGAGGCCTGTGAGCCT
CTGGTCTCCATGGACACAGAAGATGTGGTCAAGTTTGAAGTTGGACTCCACGAGTGTGGC
AACAGCATGCAGGTAACCTGACGATGCCCTGGTGTACAGCACCTTCTGCTCCATGACCCC
CGCCCCGTGGGAAACCTGTCCATCGTGAGGACTAACCGCGCAGAGATCCCATCGAGTGC

FIGURE 1 (CONT'D)

CGCTACCCAGGCAGGGCAATGTGAGCAGCCAGGCCATCCTGCCCACCTGGTTGCCCTTC
 AGGACCACGGTGTCTCTCAGAGGAGAAGCTGACTTTCTCTCTGCGTCTGATGGAGGAGAAC
 TGGAACGCTGAGAAGAGGTCCCCACCTTCCACCTGGGAGATGCAGCCCACCTCCAGGCA
 GAAATCCACACTGGCAGCCACGTGCCACTGCGGTTGTTTGTGGACCACTGCGTGGCCACA
 CCGACACCAGACCAGAATGCCTCCCCTTATCACACCATCGTGGACTTCCATGGCTGTCTT
 GTCGACGGTCTCACTGATGCCTCTTCTGCATTCAAAGTTCTCGACCCGGGCCAGATACA
 CTCCAGTTTACAGTGGATGTCTTCCACTTTGCTAATGACTCCAGAAAATGATATACATC
 ACCTGCCACCTGAAGGTCAACCTAGCTGAGCAGGACCCAGATGAACTCAACAAGGCCTGT
 TCCTTCAGCAAGCCTTCCAACAGCTGGTTCCAGTGGAAGGCTCGGCTGACATCTGTCAA
 TGCTGTAACAAAGGTGACTGTGGCACTCCAAGCCATTCCAGGAGGCAGCCTCATGTATG
 AGCCAGTGGTCCAGGTCTGCTTCCCGTAACCGCAGGCATGTGACAGAAGAAGCAGATGTC
 ACCGTGGGGCCACTGATCTTCTGGACAGGAGGGGTGACCATGAAGTAGAGCAGTGGGCT
 TTGCCTTCTGACACCTCAGTGGTGTGCTGGGCGTAGGCCTGGCTGTGGTGGTGTCCCTG
 ACTCTGACTGCTGTTATCCTGGTTCTCACCAGGAGGTGTGCACTGCCTCCCACCTGTG
 TCTGCTTCCGAATAAAAGAAG

Gene 463. >ENST00000325070 cDNA sequence

ATGGTCAATCCCACCGTGTCTTTGACATTACTATTGAGCCCTTGGGCTGCGTCTCCTTC
 AAGCTGTTAGCAGACAGTGTGTAAAGACAGCAGAAAACCTTTCGTTCTCTGAGCACTGGA
 GAGAAAGGATTTGGTTATAAGGGGTTCTTTACAGAATTACTCCAGGGATTATGTGTGAG
 GGTGGTAACCTTTACACACCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTC
 GATGAAGAGAACCTCATCCTGAAGCATAAGATCCTGGCATCTTGCCCATGGCAGATGTT
 GGACCCAACACAAATGCTTCCAGTTTTTTCATCTGCACTGCCAAGACTAAGTGGTTAGAT
 GGCCAGCATGTCTTTGGCAAGGTGAAAGCGAGCATGAATATTGTGGAGGCCATGGAGCGC
 TACGAGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCT

Gene 464. >ENST00000324432 cDNA sequence

CTGAGAGTCGGAGCCACAGCCAGAGCCCTGCCCAGGCCGAGCCGGAGCTGCAGCCCGAGC
 GCGGTGGTGCCTCAGCCCCGTCTCTTGTCTCTCCTCAGCCTCGGTGCCTTGGAAATTTGT
 GTCGCTGAGTCAGCAAGCCTTTTCAATTTGCCCCGGTTTTTGTGTTTGTGGTTTGTATCA
 AGATGGGAACTCAAACAAGTCATTCTCTTAAGGAGCTGGTGTCTTCATCCAGAAGGGAC
 AGTTTGTGCCAGCTCTCCAGAGAGAAAAGATCTGCCGGAGGCGCTGGGCAATGACCCCGG
 GACTCCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGACTCCTTGGGAAGAT
 GGCCATGGCCCCAAGCCCTTCCCTGGTGCAGGTGTACACCAGCCCCGCGGCTGTGGCCGT
 GTGGGAATGGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCACCGTCTGCAGCTT
 CATCGAGCAGCAGTTTGTCCAGCAGAAGGGCCAACGTTTTTGGGCTTGGGAGCCTGGCCCA
 CAGCATCCCCCTTGGGCCAGGCAGACCCCTCGCTGGCCCCCTTACATTATTGACCTCCCCAG
 CTGGACCCAGTTCGCCCAGGACACCGGCACCATGCGGGCTGTGCGGAGACACCTGTTCCC
 CCAGCACTCAGCCCCCTGGCCGAGGTGTGCTCTGGGAGTGGCTGAGCGACGATGGCTCCTG
 GACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGGCCAGGGGCAACCA
 GCTCGTGGACTTGGCCCCCTGGGGTACAATACTACTGTCAACTACACCACCCACACGCA
 GACCAACAAGACTTCCAGCTTCTGCCGAGCGTGCAGGCGCCAAGCAGGGCCGCTTACCC
 GGTGACCACCATCATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCAAGTG
 CCTCAGTGGCAGCAGAACTGGCCCCGTGTGAGGCGCTACCGCCACTCCATGACCAACCT
 CCCTGCATACCCCGTCCCCCAGCACCCCCCACACAGGACCGCTTCTGTGTTTGGGACCCA
 CCAGGCCTTTGCACCGTACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCT
 GAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTTACCG
 CTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGC
 AGTCAGTGCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGT
 GCCCATGCAGATGCCAAAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGGCATGACGAGTGT
 TCTGATGTGAGCCATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCAGCCACACAGCCC
 TCCCGCCTCCCGTCTGGCTTCCAAAAGTCACGGCTCAGTTAAGAGATTGAGGAAAATGTC
 CGTGAAAGGAGCGACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTATAAAAAACTACAC
 GGAAGAGCTGAAAGTGCCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCAC
 AGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCCTAGCTGTGGGCCA
 CCTACCAAGTGCAGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCATGTACTGCAACGG

FIGURE 1 (CONT'D)

CAATAAGGATGGAAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATGGAGAGAAGACGGG
GACCCAGCCCCAGGGAAAGATGGAGGTATTACGGTTCCAGATGTCGCTCCCCGGCCACGA
GGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCCATGGTATCCAGGGCCCTGAGCA
CCCCAATCCCGGAAAGCCGTTCACTGCCAGAGGGTTTCCCCGCCAGTGCTACCTTCCAGA
CAACGCCCAGGGCCGCAAGGTCCTAGAGCTCCTGAAGGTGGCCTGGAAGAGGCGGCTCAT
CTTCACAGTGGGCACGTCCAGCACCACGGGTGAGACGGACACCGTGGTATGGAACGAGAT
CCACCACAAGACAGAGATGGACCGCAACATTACGGGCCACGGCTATCCCGACCCCAACTA
CCTGCAGAACGTGCTGGCTGAGCTGGCTGCCAGGGGGTGACCGAGGACTGCCTGGAGCA
GCAGTGACCTCGCACCCACGACGCCCCCTCTGGTGGCCACCCGCTGCCCCATGGCTG
GCTGGGTGGCCAGGCAGGAAGTGCCAGCCCGAGAGGCTGGGAGGTTTGTGAGGGTGTG
GGGTGTGCCCCACCTGAAGCCGGGGCTCCCCCTGCCTGCCTCTCTCTCCTCCTCCCCTCT
GGGAATTGGGCAGCCCTGGGCAGTTGTACTCATGGGGGCTTAGGATGCAGCTACCTCAGT
GCGCAGGGCCCGTCTGTCTCTGGGGGCTGCTTCGGGCCCGCGGTGCTCGGGGCTGGTG
TGGGGCGAGTAGAGACTTCCCCAGCCTGGACGGGCGTGGGTTCTGGGTGAGCTTCTTTTA
CCTCAATTTTGTGTTGCAATAAATGCTCTATAGCC

Gene 465. >ENST00000307630 cDNA sequence

ATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGCTGGCCGAGCAGGCGGAGCGCTAC
GACGACATGGCCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTGCAATGAG
GAACGAAACCTTCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCCGCTCTTCCTGG
AGGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGAAGAAGATTGAG
ATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGAGGCTGTGTGCCAGGATGTG
CTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAGCAAA
GTGTTCTACTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGA
GAGAAAAGGGCGACGGTGGTGGAGTCCTCCGAGAAGGCCTACAGCGAAGCCACGAGATC
AGCAAAGAGCACATGCAGCCACCCACCCCATCCGATTAGGCCTGGCTCTTAACTACTCC
GTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTGCCACTTGGCCAAGACCGCG
TTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACAAGGACTCCACG
CTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACACGAGGACGAC
GATGGCGGGCGAAGGCAACAATTAA

Gene 466. >ENST00000275560 cDNA sequence

GGGGCCGCTCCAGCTGGTGGCCGGCCACCTCCACTCCCCCTTTGCTTCTTGCTGTCCCTAAG
GTCGGATGGGGACAGGCTGGGGCCACCAGCCAGCTCCATGGACAGGGACTTTGCCTCTGC
TCACCTTCCAGCTGTGGAAAGAAAAGAAGAAACGCCTGTGTTGATTTCCATTTGGAAGAT
CCTTCCTCCTCCTAAACTTCCAGGGGCAGACAAAGTGATTGATCTTGGATTGACTGTAG
AAGAAGGGACAGAAAGAGCCAGAACATTCCCCCAGATGTTCCAAGTGTGACTTCTCCCT
GGCGCCTTGATGGGAGCATCTGAAACACCCCTTACCCTCTAGATGCACAAGGAAGCAGAG
ATGCTAATTGGTCCCCAGCTGGATGAGAAGCGCTGGGGGTGGAGGTTGGGAGATGGGAGT
GCTGCCCCCTCCCTTCTCCCCCAAGCCCTGTCTTTCTTCTCCTCCTGCCACTGGCCAGC
GCCCTACAGCCCACTCCACTGCCCTTTCAAGAGCTGAGGCTGGTGGGGGGCCCCAGCCGC
TGCCGGGGCCGCTGGAAGTCATGCACGGTGGCTCCTGGGGCAGCGTCTGTGATGACGAC
TGGGACGTGGTGGACGCCAACGTAGTGTGTCGCCAGCTGGGCTGTGGCCTGGCACTGCCC
GTGCCACGGCCCCCTTGCCCTTTGGCCAAGGCCGAGGCCCATCCTGCTGGACAACGTGGAG
TGCCGCGGGCAGGAAGCTGCGCTGAGCGAGTGCAGCAGCCGCGGCTGGGGCGTCCACAAT
TGCTTTCACTACGAGGATGTGGCTGTCTGTGTGATGAATTCTTGCCAACGCAGCCCCCA
ACAAGGAAGATGTTAACCAGTAGAGCACCTCCTACGACACTGCCGAATGGAAAAAGTGAG
GGCAGCGTACGCCTGGTAGGGGGCGCAACCTGTGTGAGGGCCGAGTGGAGATCCTGCAC
AGTGGCCTGTGGGGCACCGTGTGTGACGACGACTGGGGGCTGCCGGATGCCGCTGTGGTC
TGTGCTCAGCTGGGCTGCGGGGCGGCCATGGCCGCCACCACCAACGCCTTCTTCGGCTAT
GGCACCGGACACATCCTGCTGGACAACGTGCACTGCGAAGGCGGCGAGCCCCGCCTGGCA
GCCTGCCAGAGCCTGGGCTGGGGTGTGCACAACTGCGGCCACCACGAGGACGCGGGCGCG
CTCTGCGCAGGCCTGGGTCCCCCAACGCTCACAGCACTGCCATCCTCAGCCACAAGAGAG
GACTGGGCTTGGCAGACAGATCCGTCCGCTACAGGAGTTGGCCCCCAGCCTTCCCGGGAG
ACAGCACTGCTCACCACCGCCGCTGGGCCGCGGGGAAGAAAAGTGGACGGCTGCGACTG
GTGGGCGGCCCCGGTCCGTGCCGCGGCGCGTGGAGGTGTTGCACGCCGGGGGCTGGGGC

FIGURE 1 (CONT'D)

ACCGTGTGCGACGATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCGCGAAGCGGGC
TGGGGCCTGCGCTGGGCGCTACGGGACTGGGCCACTTCGGCTACGGCCGCGGCCCCGTG
CTGCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGACTGCTTCCACCTG
GGCTGGGGCCAGCACAACGTGCGGCCACACGAGGACGCGGGAGCGCTCTGCGCAGGCCCA
GAGGAGCTGGGACTGCAAGTCCAGCAGGATGGTTCTGAGACCACGCGGGTGCCCACTCCT
CGGCCAGGGACGGGCATCTACGTCTGGTCAATGGAGCCCACCGATGCGAGGGACGTGTA
GAGCTCTACCTAGGGCAACGGTGGGGCACTGTCTGTGATGATGCTTGGGACCTGCGGGCA
GCCGGTGTCTGTGCGCCAGCTGGGCTGTGGCCAGGCCCTCGCAGCCCCTGGCGAGGCT
CACTTTGGCCAGGCCGAGGCCCATTTCTCCTGGACAATGTCAAGTGCCGTGGGGAAGAA
AGTGCTCTGCTGCTCTGCTCTCATATCCGCTGGGATGCCACAACGTGTGACCACAGCGAG
GATGCCAGTGTCTGTGCCAGCCTTCATGACCCAGCCCGCTCTGCAGACCACCTCTTCTT
CTGGGAGCTGTGACCTCCCTTCTCCTCCAGGAAGCCCTCCTCTTGTGATGACTACAGTT
CACTTTGCCCCCTCCTTCCCTTGCCTGGGAGAGAGCCTACCTAGACAGTGCAGTCCTGCTT
GGGGGAGCCTGGCTGTACCCCCGTCCACTTACTGCGTGACCTCAGCCTGTCTATCGACTGT
TGTGAGCCCAATTCAAGTGAAAGCTCCTGTGGTTTTGCTCAGCCAAAACAAAACGAGGGG
AAGAGGATGATTCTAACTCTTCTGTTTTGGTGGGGCTCTTTTTATAGCACCAGACTCTGC
CTTCTTTGACCTAGATCCAGGAGGCTCAGGGGCTCTTTAAATGGGGTATCTCCTCTTCCC
CCAACCCATCTTTGGGATCCCCAAGAAGAGGGAAGGCAGGAGGGGCTACAGCTCCTACCT
TGGGCCCTCAGGGGCTGCAGAGGAACCTGGGTCCCTGTCTGCCCCTGCTCCGCGAGGGCC
TGGACTAACTCAGATGGTGTCTCGGCTGGACAAGGGGACTGGGGGAGGGGCCAAAGCAGGG
ACAGTGGCCCCCTCCTGTCAGCTGGAACAGCATCTCTGATTTATGCCGTCTCCACCACAG
AGCCTCCACTTTGTCAGGAGTGAAGAACCCTGGGGGCCTGTAGCCACCAGTTTCATAGGTGC
CAAGTCAATAAAGCATTGTCCCCCGTCTCTTATAACTGCA

Gene 467. >ENST00000297799 cDNA sequence

ATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCGCGAAGCGGGCTGCGGGCCTGCGC
TGGGCGCTACGGGACCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGAC
TGCTTCCACCTGGGCTGGGGCCAGCACAACGTGCGGCCACACGAGGACGCGGGAGCGCTC
TGCGCAGGTGAGGCTGACAGCGAAGGCCAGAGGAGCTGGGACTGCAAGTCCAGCAGGAT
GGTTCTGAGACCACGCGGGTGCCCACTCCTCGGCCAGGGACGGGCATCTACGTCTGGTC
AATGGAGCCCACCGATGCGAGGGACGTGTAGAGCTCTACCTAGGGCAACGGTGGGGCACT
GTCTGTGATGATGCTTGGGACCTGCGGGCAGCCGGTGTCTGTGCGCCAGCTGGGCTGT
GGCCAGGCCCTCGCAGCCCCTGGCGAGGCTCACTTTGGCCAGGCCGAGGCCCATTTCTC
CTGGACAATGTCAAGTGCCGTGGGGAAGAAAGTGCTCTGCTGCTCTGCTCTCATATCCGC
TGGGATGCCACAACGTGTGACCACAGCGAGGATGCCAGTGTCTGTGCCAGCCTTCATGA
CCCAGCCCGCTCTGCAGACCACCTCTTCTTCTGGGAGCTGTGACCTCCCTTCTCCTCCA
GGAAGCCCTCCTCTTGTGATGACTACAGTTCACTTTGCCCCCTCCTTCCCTTGCCTGGGAG
AGAGCCTACCTAGACAGTGCAGTCCTGCTTGGGGGAGCCTGGCTGTACCCCCGTCCACTT
ACTGCGTGACCTCAGCCTGTCTATCGACTGTTGTGAGCCCAATTCAAGTGAAAGCTCCTGTG
GTTTTGCTCAGCCAAAACAAAACGAGGGGAAGAGGATGATTCTAACTCTTCTGTTTGG
TGGGGCTCTTTTTATAGCACCAGACTCTGCCTTCTTGACCTAGATCCAGGAGGCTCAGG
GGCTCTTTAAATGGGGTATCTCCTCTTCCCCCAACCCATCTTTGGGATCCCCAAGAAGAGG
GAAGGCAGGAGGGGCTACAGCTCCTACCTTGGGCCCTCAGGGGCTGCAGAGGAACCTGG
GTCCCTGTCTGCCCCTGCTCCGCGAGGGCCTGGACTAACTCAGATGGTGTCTCGGCTGGAC
AAGGGGACTGGGGGAGGGGCCAAAGCAGGGACAGTGGCCCCCTCCCTGCAGCTGGAACCAG
CATCTCTGATTTATGCCGTCTCCACCACAGAGCCTCCACTTTGTCAGGAGTGAAGAACCCT
GGGGGCCTGTAGCCACCAGTTTCATAGGTGCCAAGTCAATAAAGCATTGTCCCCCGTCTCT
T

Gene 468. >ENST00000320902 cDNA sequence

AATTTGGAATCAATAGGCAGGAGTCATTTTCAAATCAAGAAAGATCAGAATTTGGTAACA
GACTGGATGAGACTGATAAAGGAGAGCGCCACAATGACTCTCAGGGTTCCCTGGAAGGG
ACGGGGGCGGGCATACTGCGGTGCTACAGAAGGTGGCAGCAGCAGGTCCCAGGGCTCCAG
TTACAGCAGCTCAGACCTGCACTCATGCCAAGGACTCTCACAGACCCTTTCCCTGCAATG
ATTTCACTGAGTGCAGACTCCAGCAGGTGCGCCACAGCGCAGCTCCTGCCCTCAGGACC
TCTCAGGCAGTTGGGGGAGAGGCACCTCTGTGCAGGGGCCTGTGTTCACTCTTCTGCAA

FIGURE 1 (CONT'D)

ATGGCGAGTGGCAGGCTGGGAATGAACCTCAGGGCTGTGCCTTCCTTAAGCCTGGACTGT
TCCACTGTATCAACATACCTGCCTCACACAAACAATTCTACCAGCACGGGATCAGTAATA
TTTCATACATCAGAGGTGTGTGAGAACTAATTTTGCCTGGAAGAGGGGTGAGGGCAGGC
TACAGAGAGGAAGGTGTGCACAGGTGAGGCCTTGAGGGGTGGGAGGCAGGGAGGGGAGC
TGCTTTCCAGGCAAAGGGAACGAGGAGAAGATTTCCACATAAAGATCTGGGCCTTGGCAC
CTCACTCCTGGCAGCCTGTCTGTAATTCCTCTGGTCACCCCTCTGTGGAGCAGTGTGCC
TGCCTCAGTCATCTCTGTTGATGATTTAAGCCTAGCAGCCTTCAGCCAAATGTGGCAACT
GTGTAAGCCAATACCCAGCTAGCTCCTGGACCACTCGGATGCCCATCAACATGTACGAGG
CTGGGGTTACTTCTCCTGGGATCCCAGAAATCCTCAGATTTGCACGCAATGCAAATGGGC
ATTTCGGGGGGCCTGTGGGTGGTCCCGATTCTGTTCTTGGGAGCGGGAGTGAAAAGCAAG
CCTGTCTGGGGAACTGGCACCTTCACTGGTGGCCACGCTGCTGGGGCTGGGCGTGAAG
CTGCCTCCGGCCCTTGAGAGGAGTGTGAGGGAAGGGAGGCGGCAGTGCTTTTTATACAC
AGGAGCTGGAGGAGGGTGATGGCAGCTTGGAGGAAGTCATCACTGCCATGGTAGGGGGA
AATCTGGAAATATTGGGCATGTGGCCCTCCCTTCCACCGTAACCCCAAGCTCCTCAGC
CCACTTCTTTCCACCAGGCACCTTTGGGCTTCCCTCTAGGTGGAACAGCCAAGTCCTGAG
TCTCTTTGCTCAGAAGCTCAAGTGATTCAATTTCTTTTCTCCAACTTTCCCAAGACTGC
AATACCTCTTGGAAAGGACGTGACCAATGTGGCTGAGACACACTGGGCAGAGCCGCACT
ACTCATTTATGCAAAACCATTACTCTGGCCGCCGATCAGTCTCCCTTCCCTTTTTCAGC
AATCATGTATCCCATTAGCCTGTTTGATTGCCGCTGCTCACAAGGGGCGCCTTCGCTGA
ACCGTCTTCAATGGCCTCTGGATCTCTCCCTGAGAGAAGCCGGCTAATTTGGAATGTGG
TCGTGTGTATGAATCCGACACAGCCTCAGTCACAATCGGGTGTCTTTTCTGTAGCTGCT
GTTTATGATCACTTTGCCTTGCCTCTCTGGGAGCCATAATTACCACATACTGGAGATAG
GCTGGGTGTTCTTTTCCCGTGAATCCTGGACAGGATGTACACAAATGTGCTAGCCCCTT
CTTGGTGACCAGGCTAATTCCTCAGTGGCTTGGTGGCTGCTGCCTCTCATTAGAGGGATT
CCCTAAGCACTATTTGCTTGACAAATTTTCAAGGTTTTTAAAAGCAGAAGCCTTTGCTAA
TTTTCCCAAGTTGGCCTAAGAGTCCACTGTGAACTGCAGCAGAAATTGGGGAAATTTAAT
AAATGTTGATCAATGAC

Gene 469. >ENST00000244699 cDNA sequence

TCTTCCCGGAGGTCTCCAGATACCGCCGGAGTATGAGTGGCCTTCCCAATCTACAGGAA
ACATTAAAAGAGAGACAGGCAAGATTTAGAGAGGCAAGGGAAAGCCGAAGACTGAAAATT
GACCTTTCATACAAATATATATTTTGAATTTCTAGCAGAAAATCTTGGCCTGGACATAGTA
ACTGTTGAAGAATTAATTTTGGATTGCCCATCTAATGTGGTCGAACTATTGCTGGAGCAA
CTAAAGGGGCAAAAATGATGAAATTGTATATAGACAATGCAGCCCCGGATAAACTAAAAG
GACTGTGCATATTTTTTGTTCGTTGCCGTAATGATGTTGCTATAAATGTTAAACTATTTC
AAGAGGAAGCGCTCTTTACTGTTCTGGATGCGTCGAAAGGACTCTTAAATGGAATTAGGG
ATATGTTGGCAAATATATTTCTACCAGCTGTTCTTGCAACAAACAACCTGGGGTGCTTTAA
ACCAGTCCAAGCAGGGAGAATCTGAAAAACATATTTTCACTGAAACCATCAACAGATATC
TTTCATTTTTTAGATGGTGCTAGAATAAGTATTGAGGGAAACAGTGAAGTTAAAGACAATAG
ACAATGTTAATTTTTTCCAACTGCACACCTTTGAAGAAGTAACTGCTGCAGCCAGCAACT
CAGAACTGTTTCATCAGCTGGAGGAAGTGCTGATGGTATGGTACAAACAGATCGAACAGG
TACTTATTGAGAGTGAGCAGATGAGAAAAGAAGCTGGTGATTGAGTCCACTCACTGAAT
TGGAACACTGGAAACGCATGTGAGCCAAGTTCAACTATATCATTGAGCAGATTAAAGGGC
CAAGTTGTAAGGCTGTCTATAAATGTGCTAAATGTTGCACACTCCAACTGCTAAAGAATT
GGCGTGATTTGGATGCAAGAATCACTGATACAGCAAATGAATCCAAAGATAATGTGAGAT
ATTTGTATACTTTGGAAAAAGTGTGTCAACCTCTCTATAACCATGACCTAGTTTCCATGG
CACATGGAATACAAAATTTGATTAATGCCATCAGAATGATTACGGTGTGTCAAGGTATT
ATAATACCTCAGAGAGAATGACCTCATTGTTTATCAAGGTAACAAATCAAATGGTAACAG
CATGTAAAGCATATATTACTGATGGAGGATTAAACCATGTATGGGATCAGGAAACGCCAG
TTGTACTAAAGAAAATTGAGGACTGCATTTTTCTATTCAAGGAATATCAGGCATCTTTTC
ATAAAACAAGGAACTGATTTGAGAATCCTCAGGGGAAAAATCTTTTGAGGTTTCAGAAA
TGTATATATTTGGAAAATTTGAAGCTTTTTGCAAAAGACTGGAGAAGATTACAGAAATGA
TAACTGTTGTGCAACATATTCAACCTTGAGTAATTCTACCATAGAAGGAATAGATATTA
TGGCAATAAAATTGAGAAATATATACCAAGGGTTAAGAAAAAGCAATATGACATTCTGG
ATCCAAGAAGGACAGAATTTGACACAGATTTCTTAGATTTTCATGACAAAATCAATGGTT

FIGURE 1 (CONT'D)

TAGAGGTACAAATACAGGCATTTATGAACAGTAGTTTTGGGAAAATCTTATCTTCTCAGC
 AGGCTCTTCAGCTACTTCAAAGGTTTCAGAAGCTGAACATTCCCTGTCTGGGATTAGAAA
 TAAACCACACAATAGAGCGTATTCTTCAGTACTATGTGGCTGAACCTTGATGCTACTAAGA
 AGGCAAGTCTTTATCATTCTCAGAAAGATGACCCCCCTCTTGCTCGCAACATGCCCCCTA
 TAGCAGGAAAAATACTCTGGGTGAGGCAGCTCTATCGCCGGATAAGTGAGCCCATCAATT
 ATTTCTTTAAAACTCAGACATTTTATCAAGTCCGGACGGTAAAGCTGTCATCCGTCACT
 ATAACAAGATCTCCTATGTGCTGGTGGAATTTCGAGGTGGTCTATCACACAGCCTGGATCA
 GAGAGATTTTACAGTTGCATTACGCTTTACAAGCCACGCTTTTTGTGCGACATCCAGAAA
 CAGGGAAGTTGCTGGTTAATTTTCGATCCCAAATTTTGAAGTTGTTTCGGGAACTAAGT
 GTATGATAAAAATGAAGTTGGATGTACCAGAACAGGCAAAGAGATTGCTAAAATTGGAAA
 GTAAATTGAAAGCAGACAAACTGTATTTGCAGGGTCTTCTGCAATATTATGATGAGTTAT
 GTCAGGAAGTGCCTTCTGTGTTTGTCAATCTGATGACCCCAAAAATGAAAAGGTGGAAT
 CTGTGTTGAGGCAAGGACTCACAGTGTTAATCATGGTCTGCTTTAACTGGAAGCTTCT
 TTCAAGAAGTCAATTAGTTTTGGATATGTTCAATCACTTTTAAAGAAGATCAGTGACT
 TGTGTGAAATGCATATTGATACAGTTCTGAAGGAGATAGCCAAAAGTGTGTTGATTTCTC
 TGCCTGAAAGTGGTGCTACCAAAGTAGAAGATATGTTGACCTCAATGAGACATACACAA
 AAGAATGGGCTGACATTCTAAACCACAAAAGTAAGCATGTGGAAGAAGCTGTGAGAAC
 TTATATCAATATTTGAGCAGATTTATGAAGTGAAATACACTGGGAAAGTAGGAAAACAGT
 CAGAACAGCGGAAACACGTTGTTTTTGAAGTGAAAAGGAGGGTGAAAACAATGACT
 ATGAAGCTAATATTGTGAATGAGTTTGATACTCATGATAAAGAAGATGAATTTAAAAAGG
 AGTGTAAGAGGTCTTTGCTTTTTTCTCTCATCAATTACTAGACAGTCTTCAAAAAGCTA
 CACGGTTATCTCTGGACACAATGAAAAGAAGAATATTTGTTGCAAGGCAAGTTGAAAATA
 TGCTAATTATCCTTTATGGGCGAAAGCAGTCAGAAGATATTATTTCTTTATAAAAAGTG
 AAGTACATCTTGCAATTCCTAATGTGGTGATGATTCTAGTTTGGATGACATTCAACAAG
 CCATTAACCGTATGATCCAGTTAACCTGGAGGTGAGCAGAGGAGTGGCTCACTGGGGGC
 AACAGCAAATCCGTCCCATCAAGTCTGTCAATCCAGCCCCACCACTACTGACGTGACCC
 ATCAAAACACAGGAAAAGTCTGAAGAAGGAAGAAAGATCTTTTGAAGAAGCTATTCCTG
 CGAGGAAGCTGAAGAATTTTTACCCGGGGGTAGCGGAGCACAAGGATATTTCTAAGTTGG
 TCCTGCTCCTTTCTTCTCTGTAAATTCCTAAGAAAGGCAGCTCATGAGGCCCTGCAGG
 ACTTTTCAAGAAGTACAAGACTCTCTGGACAGAGGACCGCGATGTGAAAGTGAAGGAATTTT
 TGGCTAACAACCCCTCTCTGACTGAAATCAGATCAGAAATTCTACACTATGCTACTTTTG
 AACAGGAGATTGATGAGTTGAAGCCTATTATTGTTGTAGGAGCACTTGAATTACATACAG
 AGCCGATGAAATTGGCCTTATCCATCGAGGCCAAGGCATGGAAGATGTTACTCTGTGAT
 ATCTGAATGAAGAATACAAAAGAAAATGTATACATGATAGCATTTATTAATGAATACT
 TGAAAAGTTATCTAGACCTATTCTGTGATTTAGATGATGTGAGATTTGCAATGGAAGCCT
 TGTCTTGCATACGTGATAATGAAATTCAAATGGACATGACTTTGGGACCAATTGAAGAAG
 CCTATGCTATTTTAAACAGATTTGAAGTTGAAGTAACCAAAGAAGAATCAGAAGCAGTTG
 ATACCTTAAGATATTCTTTCAACAAATTGCAGAGCAAAGCTGTTTCAGTACAAGAGGACC
 TAGTTCAAGTGCAGCCAAAGTTTAAAGCAATCTACTTGAGTCTGTGGAAGTTTTTCGTG
 AGGACGTGATAAACTTTGCAGAAGCATATGAATTGGAAGGACCTATGGTTCCAAATATAC
 CACCCCAAGAAGCTAGCAACAGGCTACAGATATTTTCAGGCCAGTTTCGATGATCTGTGGA
 GGAAATTTGTTACGTATTCTCTGGTGAAACAACTTTTTGGATTGCCTGTGACTGATTATG
 AGGTTTTTACACAAAACAGAAAAGAACTCAACTTGCTGCAGAAGCTGTATGGATTGTATG
 ACACCGTAATGAGCAGTATTAGTGGTTATTATGAAATACTTTGGGAGATGTAGATATTG
 AAAAAATTAATGCAGAACTGCTGGAATTTCAAAAAGAGATGTGTAAGCTTCCAAAAGGAC
 TTAAAGATTGGCAAGCTTTTTTGGATCTCAAAAAGAGAATTGATGATTTTCACTGAGTCAT
 GTCCTCTACTGGAATGATGACCAATAAGGCCATGAAACAGAGACACTGGGATAGAATCT
 CCGAGTTAACTGGAACCCCATTTGATGTGGAATCTGATTCTTTTTGCCTTAGAAATATCA
 TGGAAGCACCACTCCTTAAACATAAGGATGATATTGAGGATATTTGCATATCTGCCATTA
 AGGAGAAGGATATCGAAGCCAAGCTGACTCAGGTGATTGAGAATTGGACCAACCAAAATC
 TGAGTTTTGCAGCATTTAAGGGAAAAGGAGAGCTCCTGCTCAAAGGAACCGAATCGGGAG
 AAATTATCACTTTGATGGAGGATAGTTTAAATGGTCTTAGGGTCTTTACTCAGCAACAGAT
 ACAATGCTCCATTTAAAAAAAATATCCAGAATTGGGTGTATAAATTGTCCACTTCCTCAG
 ATATAATTGAAGAGTGGCTCGTAGTACAGAACCTTTGGGTTTATCTTGAAGCCGTCTTTG

FIGURE 1 (CONT'D)

TAGGTGGAGATATTGCCAAACAGCTGCCTCAGGAAGCAAAACGTTTTTCAGAATATTGACA
 AGTCTTGGATAAAAATAATGCAGCGAGCTCATGAGAATCCCAATGTGATTAATTGCTGTG
 TTGGAGATGAAACCATGGGACAACTTTTACCTCATTTACATGAGCAGTTGGAAGTATGTC
 AGAAGTCACTCACAGGGTATTTGGAGAAGAAACGATTACTGTTTCCAAGATTCTTCTTTG
 TATCTGATCCAGTTCTCCTGGAAATTCTTGGACAAGCCAGTGATTCCCACACCATACAGC
 CGCATCTCCCTGCAGTATCTGACAACATCAATGAGGTGACATTTTCATGCAAAAGACTATG
 ATCGCATCATGGCCGTATATCAAGAGAAGGAGAAAAAATTGTTTTGGATAATTCTGTTA
 TGGCCAAAGGTCCTGTGGAGATTTGGCTACTGGATTTGTTAAAAATGCAGATGTCATCAT
 TACATAATATAATTAGATCCGCTTTCTATCAAATCAGTGATTTCAGGATTTCAACTCTTAC
 CATTCTCAGCCACTTTCCAGCACAGGTTGGACTTCTGGGAATTTCAGATGTTGTGGACAC
 ACGATTGAGAAGAGGCTTTACGTAATGCAAAAGATGACAGGAAAATCATGCAAGTGACCA
 ATCAGAAATTTTTGGATATTCTAAATACTCTCATTAGTCAGACAACACATGATCTAAGCA
 AGTTTGATAGAGTGAAGTTTCGAGACTCTAATTACCATCCATGTGCATCAGAGAGATATTT
 TTGATGACTTGGTAAAAATGCATATCAAATCACCTACTGACTTTGAATGGCTAAAAAGCA
 GTAGATTTTTATTTTAAGGAAGATTTGGATCAAACCTGTGGTGTCTATTACAGATGTTGATT
 TTATTTACCAAATGAATTTCTGGGATGTACTGATCGTCTTGTTATCACTCCATTAACAG
 ATAGATGCTATATCACGTTAGCTCAGGCCTTGGGCATGAACATGGGAGGTGCTCCCGCAG
 GACCTGCTGGCACTGGCAAAACAGAAACCAAAAAGACATGGGAAGGTGTTTGGGAAAAT
 ATGTGGTCTGTGTTCAATTGCTCAGATCAAATGGATTTTCAGAGGCCTAGGAAGGATTTTCA
 AAGGCAAGTGTCTTGCACAGTCGGGTTCTTGGGGCTGTTTTGATGAGTTTAAACAGAATTG
 AATTGCCTGTATTATCAGTGGCAGCACAAACAAATTTATATTGTTTTGACAGCAAGAAAAG
 AAAGAAAGAAACAGTTCATTTTTTTCTGATGGTGATTGTGTTGATTTAAATCCAGAATTTG
 GAATCTTCTTAACGATGAACCTGGATATGCTGGGCGCCAGGAACCTACCAGAAAACCTAA
 AAATCCAGTTTGAAGCTGTTGCTATGATGGTTCTGATAGACAGATCATTATGAGAGTTA
 AACTTGCAAGCTGTGGTTTTCTTGAAAATGTTATCTTGGCTCAAAAATTTTACGTTCTTT
 ACAAACCTCTGTGAAGAGCAACTTACTAAACAGGTTTATTATGACTTTGGATTGAGAAATA
 TTCTGTCTGTATTGAGGACTCTTGGATCTCAAAAAGAGCCAGACCAGAAGATAGTGAAT
 TAAGCATTGTCTATGAGAGGACTAAGAGATATGAACCTTTCCAACTGGTTGATGAAGATG
 AACCCCTGTTCTCAGCTTAATCAATGACCTGTTCCAGGACTGCAACTGGATAGTAATA
 CTTATGCAGAACTGCAAAACGCAGTAGCCCATCAGGTTTCAGATAGAGGGTTTTGATTAACC
 ATCCACCCCTGGAACCTGAAACTCGTGACGTTATATGAGACGTCTTTGGTACGGCATGGCT
 TGATGACTCTTGGGCCCAGTGGTTCTGGAAAGACAACCGTTATCACGATTCTAATGAAGG
 CGCAACAGAAATGCGGAAGGCCTCATAGAGAAATGCGAATGAATCCAAAAGCCATTACTG
 CACCTCAGATGTTTTGGCAGACTGGACACTGCTACCAATGACTGGACAGATGGGATTTTTTT
 CTACTCTGTGGAGAAAAACATTAAGGCTAAAAAAGGTGAAAACATTTTTCTCATTTTAG
 ATGGTCTGTGGATGCCATCTGGATTGAGAACTTAAATTCCGTTTTGGATGACAATAAAA
 CTCTGACGTTAGCTAATGGAGATCGCATTCCCATGGCCCCTAGTTGTAAGCTTCTGTTTG
 AAGTCCACAATATCGGAAACGCCTCTCCTGCCACGGTTTCTAGGATGGGCATGGTCTATA
 TCAGCAGCTCTGCTCTCAGCTGGAGGCCAATCTTACAGGCATGGTTGAAGAAACGCACTG
 CACAGGAAGCTGCTGTATTCTGACACTGTATGAGAAAGTCTTTGAAGATACATACACAT
 ATATGAAGCTAAATCTCAATCCCAAAATGCAGCTCTTGGAGTGCAACTATATTGTGCAAT
 CTCTCAATCTTCTGGAAGGGTTAATTCCCTCCAAAGAAGAAGGCGGTGTTTCTGTGTCTG
 AACATCTTCATAAATTATTTGTGTTTGGCCTAATGTGGAGTTTAGGAGCCCTTCTGGAAT
 TAGAAAGCAGAGAAAAGCTTGAAGCCTTCTTACGGCAGCATGAAAGCAAGTTGGACTTAC
 CAGAAATACCTAAAGGCTCAAATCAAACCATGTATGAGTTTTATGTTACTGATTATGGTG
 ATTGGGAGCACTGGAATAAGAACTTCAGCCTTATTATTATCCAACTGACAGTATTCCGG
 AATATTTCATCAATTTTGGTTCCAAATGTTGACAATATTAGAACAAATTTTTTATAGACA
 CCATTGCAAAACAACATAAAGCTGTTTTGCTCACAGGAGAGCAGGGAACTGCAAAAACCTG
 TCATGGTTAAGGCCTATTTGAAAAAATATGATCCTGAAGTACAGCTATCCAAAAGTCTAA
 ACTTTTCATCTGCCACAGAACCAATGATGTTTCAGAGAACAAATTGAAAGCTACGTGGATA
 AGCGAATTGGAAGCACATATGGGCCACCAGGAGGGAGAAAAATGACTGTATTTATTGATG
 ATATTAATATGCCTGTGATTAATGAGTGGGGAGATCAGATAACTAATGAGATTGTGCGAC
 AGATGATGGAATGGAAGGAATGTACAGCTTGGACAAGCCTGGAGACTTCACTACTATTG
 TTGATGTGCAGCTCATAGCAGCAATGATCCACCTGGAGGTGGTCGAAATGATATTCAC

FIGURE 1 (CONT'D)

AACGTTTAAAAAGACAATTTACTGTGTTTAATTGTACATTGCCTTCAAATGCTTCAATAG
 ACAAATTTTTTGAATTATTGGATGTGGATACTTTGATCCTTGTAGAAGTTTCAAGCCTC
 AAATATGTGAGATGATTGTGAATTTAGTCTCAGTGGGTAGAGTGCTGTGGCAATGGACTA
 AGGTGAAGATGCTGCCAACTCCTTCTAAATTTATTACATCTTCAATCTTCGAGATCTTT
 CCAGAATTTGGCAAGGAATGTTGACCATAAAAGCTGAGGAGTGCGCTTCAATCCCTACTC
 TCCTGTCCCTTTTCAAACACGAGTGCAGCAGAGTAATTGCAGACAGATTTATAACTCCTG
 AAGATGAGCAGTGGTTTAATGCACATCTTACTCGTGCAGTTGAAGAAAATATTGGCTCTG
 ATGCAGCGTCGTGTATTCTTCCTGAACCATACTTTGTGGATTTTCTTCGTGAGATGCCAG
 AACCAACTGGTGATGAACCTGAAGACTCTGTGTTTGAAGTACCCAAAATATATGAATTGA
 TGCCATCCTTTGACTTTCTGGCTGAAAACTCCAGTTTTACCAGAGACAGTTCAATGAAA
 TCATTAGAGGAACATCTCTTGATCTGGTGTTTTTTAAAGATGCAATGACTCATCTTATTA
 AGATTTACGAATAATTGCAACGTCGTGTGGAAATGCATTGCTGGTGGGTGTTGGTGGTT
 CCGGAAAACAAAGTCTTTCAAGATTGGCCTCTTTTATTGCTGGCTATCAAATATTCCAGA
 TAACATTAACCAGGTCTTACAATGTGACTAATCTAACAGATGATTTAAAAGCTTTGTACA
 AAGTTGCTGGTGCTGATGGAAAAGGCATCACTTTTCTTTACTGACAGTGAAATAAAAG
 ATGAGGCATTTCTAGAATACCTTAACAACCTTGCTATCTTCAGGGGAGATCTCCAATTGT
 TTGCACGAGATGAGATGGATGAAATCACCCAAGGTCTGATTTTCAAGATCAAGGA
 TACCTCGCCATCCTCCTACCTTTGATAATTTGTATGAATACTTCATTTCAAGATCAAGGA
 AGAATTTACATGTTGTTCTCTGCTTTTCTCCAGTTGGTGAGAAGTTCCGTGCCCGTTCTT
 TGAAATTTCTGGCTTGATATCAGGTTGCACTATGGACTGGTTTCAAGCGCTGGCCAAGGG
 AGGCTCTGATTGCTGTGGCCTCCTACTTCTTTTCAAGCTATAATATTGTCTGCTCTAGTG
 AAATTAAGACAAGTTGTAGAAACAATGGGCCTGTTTTCATGACATGGTTTCAAGAGCT
 GTGAAAGTTATTTCCAAAGATACCGCCGAAGAGCACATGTGACTCCCAAATCTTACCTCT
 CATTTATAAATGGTTATAAAAAATTTATGCTGAAAAGGTGAAGTTTATTAATGAACAGG
 CTGAACGTATGAATATTGGTCTTGATAAACTAATGGAGGCAAGTGAATCTGTTGCTAAAC
 TCTCTCAGGATCTTGCAGTCAAGGAGAAGGAGTTGGCAGTGGCTTCCATAAAAGCAGACG
 AAGTATTAGCAGAAGTCAAGTAAGCGCTCAGGCTTCAAGCAAAATTAATAATGAAGTAC
 AGGAGGTAAAGGACAAAGCCCAAAAATTTGTGGATGAAATTGATAGTAAAAAGTGAAAG
 CTGAAAGCAAGCTTGAGGCAGCTAAACCTGCACTGGAAGAAGCAGAAGCAGCCCTGAATA
 CTATCAAGCCAAATGATATTGCCACAGTCAGGAACTTGCAAAACCACCACATCTTATTA
 TGAGAATCATGGACTGTGTTCTGTTACTATTTCAAAAGAAAATTGACCCTGTTACTATGG
 ATCCAGAAAAATCTTGCTGTAAGCCATCATGGGGAGAGTCATTAAAGTTGATGAGTGCAA
 CAGGATTCCTGTGGAGCCTTCAGCAGTTCCCTAAGGACACTATAAATGAAGAGACTGTTG
 AGTTACTACAGCCATATTTTAAATATGGATGATTATACTTTTGAAAGTGCCAAAAAGTCT
 GTGGGAATGTGGCTGGTCTCCTGTCTTGACACTTGCTATGGCAATATTTTATGGCATCA
 ATAGAGAAGTGTTGCCTCTGAAGGCCAACCTGGCCAAGCAGGAAGGCCGGTTAGCAGTTG
 CTAATGCTGAGTTAGGGAAGGCACAAGCCCTGCTGGATGAGAAGCAAGCTGAGCTGGATA
 AAGTACAGGCAAAATTTGATGCAGCAATGAATGAGAAAATGGATTTGCTTAATGACGCTG
 ATACGTGCCGGAAGAGATGCAGGCCGCTCCTACTCTCATCGATGGGCTGAGTGGAGAAA
 AAATCCGGTGGACCCAGCAAAAGTAAAGAATTCAAAGCTCAGATTAATAGACTTGTAGGTG
 ATATTCTGCTGTGCACGGGATTCTTTTCTACCTTGGTCTTTTCAATCAGATATTTAGGA
 ACTATTTGCTTAAAGATCAATGGGAAATGGAGTTGAGAGCACGGAAAATTCCTTTACAG
 AAAACCTGAATCTTATTTCAATGTTGGTGGATCCTCCAATATTGGTGAGTGGGGGCTAC
 AGGGATTACCAGGAGATGATCTCTCAATTGAGAAATGGCATTATTGTGACAAAGGCCACCA
 GATACCACTCCTCATAGACCCACAACTCAAGGCCAACTTGGATTAAATCAAAGGAAA
 AAGAAAATGATTTACAGGTGACATCTCTGAACCATAAATATTTTTCGCACACACTTGGAGG
 ACAGCCTTTCTTGGGCCGACCCCTTCTCATTGAGGACATTTCATGAAGAGCTGGATCCAG
 CCTTGGATAATGTATTAGAAAAGAATTTTATTAAATCTGGCACCCTTTCAAGGTGAAAG
 TCGGTGATAAGGAATGTGATATCATGGATACATTTAACTTTACATTACTACGAAGTTAC
 CAAATCCTGCCTTTACCCAGAGATTAATGCTAAAACGTCAGTCATTGATTTCACTGTTA
 CAATGAAAGGACTTGAGAATCAGTTACTAAGGAGAGTCATTCTAACAGAGAAAACAGGAGT
 TAGAGGCTGAGAGGGTTAACTTTTGGAGGATGTTACTTTTAAATAAGCGGAAGATGAAAG
 AACTTGAAGATAACCTCCTCTATAAATTAAGTGCTACAAAAGGCTCATTGGTAGATGACG
 AATCTCTCATTGGTGTACTTCGAACTACCAAGCAGACAGCAGCTGAGGTAAGTGAAGT

FIGURE 1 (CONT'D)

TGCATGTGGCTGCAGAACTGAGATCAAGATCAACGCGGCTCAGGAGGAGTTCCGGCCCCG
CAGCCACCCGCGGAAGCATCCTCTACTTCCTCATCACAGAGATGAGCATGGTCAACATCA
TGTATCAGACGTCATTGGCCAGTTCTTGAAGTTATTTGACCAGTCCATGGCCAGATCTG
AAAAGTCACCACTACCTCAAAAGAGAATTACAAATATTATCGAGTACCTGACATATGAAG
TTTTTACATACTCTGTGAGAGGCTATACGAAAACCAAAATTCCTGTTTGTACTCCTCA
TGACCTTAAAGATTGACCTTCAGAGAGGGACAGTTAAGCACAGAGAGTTTCAAGCTCTCA
TTAAAGGGGGAGCAGCTCTGGACCTGAAAGCCTGTCTCCCAAACCTATCGCTGGATCC
TTGACATGACTTGGCTGAATCTTGTGGAGCTGAGTAACTTCCACAATTTGCAGAAATTA
TGAACCAGATATCTCGTAATGAGAAGGGGTGGAAGCTGGTTTGATAAAGATGCTCCAG
AGGAGGAAATTATCCCTGATGGATATAATGATTCACTAGATACCTGCCATAAACTTTTAC
TTATCAGGTCTTGGTGCCAGACCGTACTGTTTTTCAAGCAAGAAAGTATATTGCAGATT
CTTTGGAGGAGAAGTACACAGAACCAGTTATCTTAAATCTGGAGAAAACCTTGGGAAGAAA
GTGATACCCGGACACCTCTGATATGCTTCTGTCCATGGGATCTGACCCCAACCAATCAAA
TTGATGCATTGGCCAAGAACTGAAACTGGAATGTAGAACTATCTCAATGGGGCAAGGAC
AAGAAGTACATGCTCGAAAGCTGATTGAGATGTCAATGCAGCAGGGTGGTTGGGTATTAC
TACAAAATTGCCACCTTGGCCTGGAATTCATGGAAGAATTACTAGAGACGCTAATTACCA
CTGAAGCCAGTGATGATTCTTTCCGAGTATGGATAACTACGGAGCCCCATGATCGATTTTC
CAATTACATTGCTTCAGACCTCTCTCAAATTCACTAATGAGCCACCCCAAGGTGTACGCG
CAGGTTTGAAAAGAACATTTGCTGGAATTAATCAAGACCTTCTGGACATCAGTAATTTAC
CCATGTGGAAGCCGATGCTTTACACAGTAGCATTTTTACACTCCACTGTGCAGGAGCGAC
GAAAATTTGGCCCTTAGGATGGAATATTCCCTACGAATTCATTTCTGCTGACTTTTCAG
CCAGTGTTGAGTTTATTGAGAATCACCTTGATGAATGCGATATTAAGAAAGGTGTATCAT
GGAATACGGTTTCGGTACATGATCGGAGAAGTACAATATGGAGGCAGAGTGACAGATGACT
TTGACAAACGTCTACTTAATTGCTTTGCCAGAGTCTGGTTGAGTGAAGATGTTTGAAC
CGTCATTCTGCTTTTATACTGGATATAAAATCCCCTTATGCAAAACCTTAGACCAGTATT
TTGAATACATCCAGTCACTGCCATCCCTAGATAACCCCTGAAGTCTTTGGGCTTCACCCTA
ATGCTGATATCACGTATCAGAGTAACACTGCTTCTGCTGTTCTTGAAACAATTACCAACA
TTCAACCCAAAGAGAGTGGAGGTGGTGTGGGAGAGACCCGGGAGGCTATTGTTTATAGAT
TATCTGAAGATATGCTGAGTAACTCCCTCCTGATTACATTCTCATGAGGTGAAATCTC
GTTTGATAAAGATGGGCCATCTTAATTCAATGAACATATTTCTTAGACAAGAAATTGACA
GAATGCAAAGAGTCATTTCAATACTCCGCAGTAGCCTGAGTGATCTAAAATTGGCCATTG
AAGGAACAATCATTATGAGTGAGAATCTGAGAGATGCTCTGGACAACATGTATGATGCTC
GTATACCTCAGCTCTGGAAAAGAGTGTCTTGGGATTTCGTCCACACTGGGCTTCTGGTTCA
CTGAACCTTTTGAAAAGAAATGCTCAGTTTTCTACGTGGATATTTGAAGGGAGGCCTAATG
TGTTTTTGGATGACTGGTTTTCTTAATCCCCAAGGCTTCTCACAGCAATGAGGCAAGAAG
TGACCCGTGCCACAAAGGCTGGGCACTGGACACTGTGACCATCCACAATGAAGTTCTGA
GACAGACCAAGGAGGAGATCACGTACCCCCCTGGGGAAGGTGTGTATATTTATGGGCTCT
ACATGGATGGAGCAGCCTGGGACAGACGGAATGGGAAGCTCATGGAATCCACCCCAAGG
TACTCTTCACGCAGTTACCCGTGCTCCACATCTTTGCCATTAACTCCACGGCACCCCAAGG
ACCCCAAGCTGTATGTGTGCTCTATTTACAAGAAACCCAGGCGAACTGATTTGACCTTCA
TCACTGTGGTATATTTACGAACAGTGTTGTCCCCGGATCACTGGATCCTGAGAGGAGTGG
CCCTTTTGTGTGACATCAAGTAA

Gene 470. >ENST00000287152 cDNA sequence

ATGGTGAAGCAGACTATCCAGATATTCGCGAGGGTGAAGCCCCCTGTCCGGAAGCACCAA
CAAGGGATTTATTCCATAGATGAAGATGAAAAATTAATACCTAGCTTGGAATCATCTTA
CCACGTGATTTGGCAGATGGGTTTGTGAATAATAAGCGAGAAAGCTACAAATTTAAATTT
CAAAGAATTTTGTATCAGGATGCAACCAAGAGACCGTTTTTGAACAATTGCCAAACCA
GTTGCTGGGAGTGTCTGGCAGGTTACAATGGTACCATCTTTGCATATGGGCAACAGGC
AGCGGGAAGACATTCACTATCACAGGGGGTGCAGAGCGTTACAGTGACAGAGGCATTATC
CCAAGGACACTGTATACATTTTGAACAGTTACAAAAGGACAGCAGCAAAATATATACA
ACACACATTTCTATTTGGAAATCTACAATGAATGTGGTTATGATCTTTTGGATCCAAGA
CATGAAGCCTCCAGTTTGAAGATTGTCGGAAGTGACAATACTGGAGGATCCTGATCAG
AACATTACCTGAAAACTTGACTCTCCATCAGGCAACCACAGAGGAAGAAGCTCTGAAT
TTGCTTTTTTTTAGGAGACACCAACCGAATGATTGCAGAGACTCCTATGAACCAAGCTTCA

FIGURE 1 (CONT'D)

ACCCGTTCCCACTGCATTTTACCATTTCATTTGTCAAGCAAGGAACCAGGATCTGCAACT
GTACGACATGCCAAACTCCATCTGGTTGACCTGGCTGGTTGAGAGCGAGTTGCAAAGACT
GGAGTAGGGGGCCATCTTCTAACAGAGGCCAAGTATATCAACTTGTCACTACATTACTTA
GAACAGGTTATCATTGCCCTTTTCAAGAAAGCACCGTTTCGCACATTCTTATAGAAACTCC
ATGATGACCAGTGTCTTAAGAGACAGTTTGGGAGGGAAGTGCATGACAACTATGATTGCA
ACACTCTCCTTGGAGAAAAGGAATCTTGATGAGTCTATATCAACCTGCAGATTTGCACAG
CGAGTGGCACTCATAAAGAATGAAGCTGTTCTTAATGAAGAAATTAACCCAGATTAGTG
ATTAAACGCCTACAAAAGGAAATCCAGGAACTGAAGGATGAACTGGCCATGGTCACTGGG
GAGCAGAGGACAGAGGCACTCACAGAAGCAGAGCTCCTTCAGCTGGAAAACTAATAACA
TCCTTTTTTGAAGACCAGGATTTCAGACAGTAGATTAGAGGTTGGCGCGGATATGCGTAAA
GTTTCATCACTGTTTTTCATCATTTAAAGAACTATTGAATGACAAGAAGATCCTTGAAAAC
AATACAGTCTCCTCTGAAAGCAAAGACCAAGATTGTCAAGAACCATTAAAAGAAGAAGAA
TATAGAAAGCTACGAGATATTCTGAAACAGAGAGATAACGAAATCAGTATCCTTTCTGAA
GTGATGAAGAAA

Gene 471. >ENST00000297170 cDNA sequence

ATGAGAGAGGAAATGTCATTAGGATGCCAGGAGGCTTTTGAAATCTTCAAGAGGGACCAC
GCTGACAGCGTTACCATCGATGACAACAAACAGATTCTGAAACAGAGATTTTCTGAAGCC
AAGGCCCTGGGAGAAAGTATAAATGAAGCAAGAAGTAAATTTGGTCACCTGAAGGAAGAA
ATCACCCAGCGGCATATACAGCAAGTAGCCCTAGGAATCTCGGAAAACATGGCCGTGCCT
CTGATGCCAGACCAGCAGGAGGAGAAGCTGCGATCACAACCTGGAGGAAGAAAAGAGAAGG
TATAAAACAATGTTCACTCGCCTGAAAGCCCTGAAGGTGGAGATCGAGCACTTGCAGCTG
CTCATGGACAAAGCCAAGGTGAAGCTACAGAAAGAGTTTGAAGTCTGGTGGGCAGAGGAG
GCCACCAACCTGCAGGTAAATTCTCCAGCAGTGAATTCATCTGATCACACGAAGCCATTT
CTCCAGACATCTGACTCCAGCATGAATGGTCCCAACTCCTCTCTAACAAAAGTTCTGGA
GGCTGGGAAGTCCAAGATCAAGGCACTGGCAGATTTCGATGTCTGTGATGTGAATGCCAGG
AAAATCCTGCCCTCGCCTTGCCCCAGTCCACACAGCCAGAAACAGAGCAGCACCAGCACC
CCACTGGAAGACAGCATCCCCAAGAGGCCAGTGTCTGTCATCCCTCTCACCGGAGACAGC
CAGACGGACTCGGACATCATCGCCTTCATCAAGGCCAGACAGAGCATTCTGCAGAAGCAA
TGT

Gene 472. >ENST00000229913 cDNA sequence

AATGCGACTATCCTCAGCTCCCTCACAGGCCCAGGACTTCAGCATTTTGGGGAAAAGATC
CAGTTTGCTCCACAAGAAAATAGATTTTCTGAAGCCAAGGCCCTGGGAGAAAGTATAAAT
GAAGCAAGAAGTAAATTTGGTCACCTGAAGGAAGAAATCACCCAGCGGCATATACAGCAA
GTAGCCCTAGGAATCTCGGAAAACATGGCCGTGCCTCTGATGCCAGACCAGCAGGAGGAG
AAGCTGCGATCACAACCTGGAGGAAGAAAAGAGAAGGTATAAAACAATGTTCACTCGCCTG
AAAGCCCTGAAGGTGGAGATCGAGCACTTGCAGCTGCTCATGGACAAAGCCAAGGTGAAG
CTACAGAAAGAGTTTGAAGTCTGGTGGGCAGAGGAGGCCACCAACCTGCAGGTAAATTCT
CCAGCAGTGAATTCATCTGATCACACGAAGCCATTTCTCCAGACATCTGACTCCAGCAT
GAATGGTCCCAACTCCTCTCTAACAAAAGTTCTGGAGGCTGGGAAGTCCAAGATCAAGGC
ACTGGCAGATTTCGATGTCTGTGATGTGAATGCCAGGAAAATCCTGCCCTCGCCTTGCCCC
AGTCCACACAGCCAGAAACAGAGCAGCACCAGCACCCCACTGGAAGACAGCATCCCCAAG
AGGCCAGTGTCTGTCATCCCTCTCACCGGAGACAGCCAGACGGACTCGGACATCATCGCC
TTCATCAAGGCCAGACAGAGCATTCTGCAGAAGCAATGT

Gene 473. >ENST00000229903 cDNA sequence

ATGGAACAGCGGTTAGCTGAGTTTTCGGGCGGCGCGGAAACGGGCGGGTCTGGCGGCCCAA
CCCCCTGCTGCCAGTCAGGGCGCACAAACCCCAGGAGAGAAGGCGGAAGCAGCAGCGACT
CTAAAGGCAGCCCCAGGCTGGCTAAAGCGGTTCTGGTATGGAAACCTAGGCCCGCGAGT
GCCCCGGGCCAGCCCGGCTAGTTTCAGGAAGCGGCTCAGCCCCAGGGCAGCACATCAGAG
ACACCATGGAACACAGCCATTCTCTGCCGTCTGCTGGGACCAGTCTTTCTGACCAAT
ATCACCTTCTTGAAGGTTCTTCTCTGGTTGGTCTGCTGGGACTGTTTGTGGAACCTGGAA
TTTGGCCTGGCATATTTTGTCTGTCTTGTCTATTGGATGTACGTGGGACACGAGGC
CCTGAAGAGAAGAAAGAGGGAGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAA
GCCATCCAGGGCACCTGACTGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTG
GCAGGGAGATAGGACCCAGCTGTGCTGTCTATGCAGCTAACCTCTGATGTGGTCTTCTCTCA

FIGURE 1 (CONT'D)

CCATTGGCTATGGATTTGATTTTCAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTC
TGTGACTGCATAGTTTTTCTACCTTCTTCCCTGATCTTTTGCTGCCATTTGATCTTTGA
TAGTTTTGGTGAAACTCTCTAAAATACATTCACTGTGGGTCCGACGCAATTTATAAAAAT
TATGTACTCAAGAAGGGAGACCTGTTTGTTTCATTTCTCATCTGTTTGGGAGATGATTTT
AGAGCACTAGAAAGGCACTGGGGAGATTCTCAGCTTAAAACATCCAGCAGTTTGAAGTAT
GATTAGGTACATCAGGGCTGCATTGTCAATGTTCTCTTAAAGTCTTTTAACATTTATAGC
AATTTTTTTTTTCCCGAGAGTTTAGGTTGCAAGTTTGGGTTTCTTGTTTGTGTTTTGTT
TTGCTTCCTGCTTTAATTCTTTAATTTTCAGTCATTACTGGTATTGAAAAATAAAATATC
TTTAAAACATCTCCTCTTCAGAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCCACT
CTCCTATTATTTTGCCACTACTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGC
AGGTGTGGGGAGGGATTTCACAAGTGTTTATTAACGGCCAGTTTCAACAAGAAGTGTTGAG
TGTGTACAAAGGGGAGGGCTGGAAGTGTTAACTCCAGACCCGTTGGCTGCTTGAGTTGTT
TCTTATATTCTAAAGCAGCAGTCCCTAACCTTTTGGCACCAGGGACCAGTTTGTGGAA
CACAGTTTTTCCATGGACGGGGTGGTGGTGGAGGATGAAACTTCCACCTCAGATCATCAG
GCATTAGAGTCTCATAAGGAGCACGCAACCTAGATCCCTCGCATGCGCAGTTCAACAATAC
GGTTCTAAGGGCTTTAGAGTAAGCAGCTTTTTACCTGTGGGCTCTGGTGAGAAATTCT
GTAAATTGTGATAATCAGGCTGGATTTTAATGCTGCTTTTCCAGTACAATGTTAGAGTTT
GGGTTCAATAAAATTAGGCAAACTCCCATTTGGGTTAGGGCTTCTCTCATTCCATTTTGTG
GCTAACCTTACTGTGTTTTGACCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCT
CACAGCCCTTTGGCCATTGGGAGTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATG
GTCTGTTCTATCTCACAGAAAAGTCTTTTCTTCCATGAGTTCTGTCTGAAGTGAACATGT
AAAAAGTATGGGAAACAGATGAATCCCTATTAAACATGAAGTTTTGATTGTATTTAAGAT
Gene 474. >ENST00000229900 cDNA sequence
ATGGCCGGCGCCCCCGGCCCGCTGCGCCTTGCGCTGCTGCTCGGGATGGTGGGCAGG
GCCGGCCCCCGCCCCAGGGTGCCACTGTGTCCCTCTGGGAGACGGTGCGAGAAATGGCGA
GAATACCGACGCCAGTGCCAGCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTG
TTCTGCAACCGGACCTTCGATGAATACGCCTGCTGGCCAGATGGGGAGCCAGGCTCGTTC
GTGAATGTGAGCTGCCCCCTGGTACCTGCCCTGGGCCAGCAGTGTGCCCGAGGGCCACGTG
TACCGGTTCTGCACAGCTGAAGGCCTCTGGCTGCAGAAGGACAACTCCAGCCTGCCCTGG
AGGGACTTGTGCGAGTGCGAGGAGTCCAAGCGAGGGGAAAGAAGCTCCCCGGAGGAGCAG
CTCCTGTTCTCTACATCATCTACACGGTGGGCTACGCACTCTCCTTCTCTGCTCTGGTT
ATCGCCTCTGCGATCCTCCTCGGCTTCAGACACCTGCACTGCACCAGGAACACATCCAC
CTGAACCTGTTTGCATCCTTCATCCTGCGAGCATTGTCCGTCTTCATCAAGGACGCAGCC
CTGAAGTGGATGTATAGCACAGCCGCCAGCAGCACCAGTGGGATGGGCTCCTCTCCTAC
CAGGACTCTCTGAGCTGCCGCTGGTGTCTCTGCTCATGCAGTACTGTGTGGCGGCCAAT
TACTACTGGCTCTTGGTGGAGGGCGTGTACCTGTACACACTGCTGGCCTTCTCGGTCTTA
TCTGAGCAATGGATCTTCAGGCTCTACGTGAGCATAGGCTGGGGTGTTCCTCTGCTGTTT
GTTGTCCCCTGGGGCATTGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGACCAGGAAC
TCCAACATGAAGTACTGGCTCATTATCCGGCTGCCCATTTCTTTGCCATTGGGGTGAAC
TTCCTCATCTTTGTTCCGGTCATCTGCATCGTGGTATCCAACTGAAGGCCAATCTCATG
TGCAAGACAGACATCAAATGCAGACTTGCCAAGTCCACGCTGACACTCATCCCCCTGCTG
GGGACTCATGAGGTCTCTTTGCCTTTGTGATGGACGAGCACGCCCGGGGGACCTGCGC
TTCATCAAGCTGTTTACAGAGCTCTCCTTACCTCCTTCCAGGGGCTGATGGTGGCCATA
TTATACTGCTTTGTCAACAATGAGGTCCAGCTGGAATTTGGAAGAGCTGGGAGCGCTGG
CGGCTTGAGCACTTGACATCCAGAGGGACAGCAGCATGAAGCCCCCTCAAGTGTCCCACC
AGCAGCCTGAGCAGTGGAGCCACGGCGGGCAGCAGCATGTACACAGCCACTTGCCAGGCC
TCCTGCAGCTGAGACTCCAGCGCCTGCCCTCCCTGGGGTCTTGCTGCAGGCCGGGTGGC
CAATCCAGGTGGGAGAGACACTCCCAGGGACAAGGAAGGAAGGGACACACACACACACA
CACACACACACACACACACATACATCCTGCTTTCCCTCCCCAAACCCATCAGACAG
GTAAATGGGCAGTGCCTCCTGGGACCATGGACACATTTTCTCCTAGGAGAAGCAGCCTCC
TAATTTGATCACAGTGGCGAGAGGAGAGGAAAAACGATCGCTGTGAAATGAGGAGGATT
GCTTCTTGTGAAACCACAGGCCCTTGGGGTTCCCCCAGACAGAGCCGCAAATCAACCCCA
GACTCAAACCTCAAGGTCAACGGCTTATTAGTGAAGTGGGGCTTGCAAGAGGAGGTGGTT
CTGAAAGTGGCTCTTCTAACCTCAGCCAAACACAGAGCGGGAGTGACGGGAGCCTCCTCT

FIGURE 1 (CONT'D)

GCTTGCATCACTTGGGGTCACCAACCTCCCTGTCTTCTCTCAAAGGGAAGCTGTTTGTG
TGTCTGGGTTGCTTATTTCCCTCATCTTGCCCCCTCATCTCACTGCCAGTTTCTTTTTG
AGGGGCTTTGTTTGGGCCACTGCCAGCAGCTGTTTCTGGAAATGGCTGTAGGTGGTGTG
AGAAAGAATGAGCATTGAGACGGTGCTCGCTTCTCCTCCAGGTATTTGAGTTGTTTGGT
GCCTGCCTCTGCCATGCCAGAGAATCAGGGCAGGCTTGCCACCGGGGAACCCAGCCCTG
GGGTATGAGCTGCCAAGTCTATTTTAAAGACGCTCAAGAATCCTCTGGGGTTTCTTAGG
GACACGTTAGGAATGTCCAGACTGTGGGTGTAGATTACCTGCCACTTCCAGGAGCCAGA
GGGCAAGAGAGACATTGCCTCCACCTCTCCTTGAAATACTTTATCTGTGACCACACGC
TGTCTCTTGAGAATTTGGATACACTCTCTAGCTTTAGGGGACCATGAAGAGACTCTCTTA
GGGAAACCAATAGTCCCATCAGCACCATGGAGGCAGGCTCCCCCTGCCTTTGAAATTCC
CCCACTTGGGAGCTTGTATATACTTCACTCACTTTTCTTTATTGCTGTGAATAGTCTGTG
TGCACAATGGGCAATTCTGACTTCTCCATCTAGTGAAATGAGCGAAATCATGGTTGTA
GTGATGTTGTTTGGGAGAGTGCAAGTAGTAATTGATTTGACCACTCACACTTGGAGCTAA
TTAAGGTTTGCCTGCCTGCAGCCTCCCCACAAATAATGAACAGCAGAAAGACTGGACG
GGGAAACCTATCAATCCTGCCCCCAGCCATGGTGAGGAAGCCCAAGCCATGGTGACACA
CAGCAGCACTGCAGATAGCCAGACACATGGCTATCCTAGAGAGGCTGGCAAGGAGTTCGT
GGCTGCAAAAGAAGTTTCTGGAGCAAGAGAGAGCTCGCTCTTGGGAGTCAGGACCTCCGG
GGAGAGCAGAGGGTTCCGACGGATTCTTTATGAGTCAGTCTCTCTCTCCCTTTTAAATG
GTGGGAACCTCCCCAAACCTTTCCCAGACACATTCTCCTGTGCCCCTCAGAGAGGCA
TGTGATGTGCAAGGAAATAATAGGATATAAAACACATCAAGTAGAAAATTTCTTATACT
TC

Gene 475. >ENST00000297153 cDNA sequence

GGAGAGCGAGAGACCGAACGAGGAGACGCGAGGAGGAGGGAGGAGGAAGAGAGGGAGGGA
GGCGGGAGGAGCGCGGAATGAAAAGCTCGGAGGGGCGAAAAGCAGCACAGCAAAGCCCA
AGTTGCTGAGCGAGCGGAGCGCTCCCGCGGCCCGGAGCCGAGCGGCCCGCGCCCCGGA
GCCCCGGCCCCGGCCCCCGCTCTGGGCCCCCGCAGGCCAAGGCCGCGGGCGGGGGCGG
GGACGACCAACTTGGGGCGCGGCGTAGCCCCGCTCTCCCGAGAGCTCGGAGCCCGGGAGG
GCTACGGCCGCGGCCAGACGGCGGGAGAGGAGCGCGGCGAGCGGAGGCGGCGAGCGGCGC
CCGCGCCGCGAGCCCCGGCCTGGGCGAGAGCGCGAATATTTTTCAAAGACTCAAACTTTC
CTCCTTTCCCCGTTTTCTGGGGCCCTTCTTGCTGGAATTGCTCTCCAGATTTCCCGCGGG
GCGCCGGGCTGCTATTCTTCCCCCGGGTTTATCGGCGGCTCGGCTAACTTACGGACCCG
GGGACCCGCGGCGCTCGTCCCTCGGCCGAACCCAGCCCCGCGCTGCTCCCCGGATCAGGAG
GGCCGGGCCCGGGGCTGCTTCGCCGCCGCGAGTGCTTTCAGCCCCGGCCCCCTGGAGTCGG
GCCGCTGAGCCACGGCAGCGGCCGAGGACTGGAAACAGCAGATTGATTAACTCGAGCG
GAGCCCCGGCCTCCCCGACTCCGCTCCGCTGAGGGGCGGCCCCAGTGCGGGGAAACGACA
AGTTTGTGAGTCGTCCGTGGCCTGTTGGATCGAAGCGCCGCTCCGCGCCGAGAGGTCC
CCGGCGCCTAGCATCCCGCGCGGACGGCCCTGGGTACCCGGGGCGGCTCGGCGGCCGGGC
TCCTCGGGTCGGGGCGCTGGCTGCTGTGCCGGGCGCGCCGAGGCACCCGGGGCTGGGCCA
GCGCCCCCTGCGTCCCCACGCGGGCAGCGGCCCGCCGAGGAGAAACACGGGTGCGCGC
CACCTCCGCTCTTCACTCTCCTGGTCTTCTGTCGCCGCTCTCTCTCACCTCTCAGGGA
AAGGGGGGACATAGGGGCGTCGCGGGGCCCCGGCGAATGCGCCCCCGCCGCTCTCGG
GCTGCGCCGCTCGCGGGGATGAAGCACCGGCCGTGAAGATGGAGGTGACCTGCCTTCTA
CTTCTGGCGCTGATCCCCCTTCCACTGCCGGGACAAGGAGTCTACGCTCCAGCCAGGCG
CAGATCGTGATGCGGGCCAGGCATGTGTGGTGAAAGAGGACAATATCAGCGAGCGTGTG
TACACCATCCGGGAGGGGGACACCTCATGCTGCAGTGCTTGTAAACAGGGCACCTCGA
CCCCAGGTACGGTGACCAAGACGGCAGGTAGCGCCTCGGACAAGTTCCAGGAGACATCG
GTGTTCAACGAGACGCTGCGCATCGAGCGTATTGCACGCACGCAGGGCGGCCGCTACTAC
TGCAAGGCTGAGAACGGCGTGGGGGTGCCGGCCATCAAGTCCATCCGCGTGGACGTGCAG
TACCTGGATGAGCCAATGCTGACGGTGACACAGACGGTGAGCGATGTGCGAGGCAACTTC
TACCAGGAGAAGACGGTGTTCCTGCGCTGTACTGTCAACTCCAACCCGCTGCCGCTTC
ATCTGGAAGCGGGGTTCCGATACCCTATCCCACAGCCAGGACAATGGGGTTGACATCTAT
GAGCCCCCTTACACTCAGGGGGAGACCAAGGTCTGAAGCTGAAGAACCTGCGGCCCCAG
GACTATGCCAGCTACACCTGCCAGGTGTCTGTGCGTAACGTGTGCGGCATCCAGACAAG
GCCATCACCTTCCGGCTACCAACACCACGGCACCAAGCCCTGAAGCTGTCTGTGAAC

FIGURE 1 (CONT'D)

GAAACTCTGGTGGTGAACCTGGGGAGAATGTGACGGTGCAGTGTCTGCTGACAGGCGGT
GATCCCCTCCCCAGCTGCAGTGGTCCCATGGGCCTGGCCCACTGCCCCTGGGTGCTCTG
GCCCAGGGTGGCACCTCAGCATCCCTTCAGTGCAGGCCCGGACTCTGGCTACTACAAC
TGCACAGCCACCAACAATGTGGGCAACCTGCCAAGAAGACTGTCAACCTGCTGGTGCGA
TCCATGAAGAACGCTACATTCAGATCACTCCTGACGTGATCAAAGAGAGTGAGAACATC
CAGCTGGGCCAGGACCTGAAGCTATCGTGCCACGTGGATGCAGTGCCCCAGGAGAAGGTG
ACCTACCAGTGGTTCAAGAATGGCAAGCCGGCACGCATGTCCAAGCGGCTGCTGGTGACC
CGCAATGATCCTGAGCTGCCCCGAGTCACCAGCAGCCTAGAGCTCATTGACCTGCACTTC
AGTGACTATGGCACCTACCTGTGCATGGCTTCTTTCCAGGGGCACCCGTGCCCCGACCTC
AGCGTCGAGGTCAACATCTCCTCTGAGACAGTGCCGCCCACCATCAGTGTGCCCAAGGGT
AGGGCCGTGGTGACCGTGC GCGAGGGATCGCCTGCCGAGCTGCAATGCGAGGTGCGGGGC
AAGCCGCGGCCGCCAGTGCTCTGGTCCCGCGTGGACAAGGAGGCTGCACTGCTGCCCTCG
GGGCTGCCCCTGGAGGAGACTCCGGACGGGAAGCTGCGGCTGGAGCGAGTGAGCCGAGAC
ATGAGCGGGACCTACCGCTGCCAGACGGCCCGCTATAATGGCTTCAACGTGCGCCCCCGT
GAGGCCCAGGTGCAGCTGAACGTGCAGTTCCCGCCGGAGGTGGAGCCCAGTTCCAGGAC
GTGCGCCAGGCGCTGGGCCGGCCCGTGTCTCCTGCGCTGCTCGCTGCTGCGAGGCAGCCCC
CAGCGCATCGCCTCGGCTGTGTGGCGTTTCAAAGGGCAGCTGCTGCCGCCGCCGCTGTT
GTTCCCGCCGCCCGGAGGCGCCGGATCACGCGGAGCTGCGCCTCGACGCCGTAACTCGC
GACAGCAGCGGCAGCTACGAGTGCAGCGTCTCCAACGATGTGGGCTCGGCTGCCTGCCTC
TTCCAGGTCTCCGCCAAAGCCTACAGCCCGGAGTTTTACTTCGACACCCCCAACCCACC
CGCAGCCACAAGCTGTCCAAGAACTACTCCTACGTGCTGCAGTGGACTCAGAGGGAGCCC
GACGCTGTGACCCCTGTGCTCAACTACAGACTCAGCATCCGCCAGTTGAACCAGCACAAT
GCGGTGGTCAAGGCCATCCCGGTCCGGCGTGTGGAGAAGGGGCAGCTGCTGGAGTACATC
CTGACCGATCTCCGTGTGCCCCACAGCTATGAGGTCCGCTCACACCCTATACCACCTTC
GGGGCTGGTGACATGGCCTCCCGCATCATCCACTACACAGAGCACAACACCTGCCACTTT
GAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACCTTTGACTGGACGCGG
CAGAATGCCCTCACCCAGAACCCCCAAACGCTCCCCCAACACTGGTCCCCCCACCGACATA
AGTGGCACCCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCTCGGGAGCTGGGG
GACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTCTACTGTGTCTCC
TTCTTTTACCACATGTACGGGAACACATCGGCTCCCTCAACCTCCTGGTGCGGTCCCGG
AACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAGGGCAATGTGTGG
CAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATTTTTGAGGGGGTT
CGAGGCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCACTGAAGAAGGGGGAG
TGTCCCCGGAAGCAGACGGATCCCAATAAAGTGGTGGTGATGCCGGGCAGTGGAGCCCCC
TGCCAGTCCAGCCCACAGCTGTGGGGGCCCCATGGCCATCTTCCTCTTGGCGTTGCAGAGA
TGATGAGAGCTGTGTGGCCACCCCCCAACCTTGCCCCCGGCACACCAAAGTGTCCACAT
TGTACCAAAGACTGACCCCCGCCAGCTGGGGTGCCAGGGGCAGGGCCGGCCCGCCAGGG
AGGGGGCCTGCATTGGCTGCAAGGATGAGCAGAGAAACAAGGACAGAGGCCAGGCACTGAG
GCCCTGGAGACAGCTGTTCCACTTGCACACACGCACACACTCATGCTCACACACACAGAG
ATATATTAAAGCACAAGTTTTCTATCTGACCTGCCAGCACCTTCTTTACTGCAAAGACAGG
GGACTTGCCCTGAATGGCATCCGCCAACCCAGGGACCTCGGCGCAACATAGGCCTTGTCTC
TGCTGCACTCGTGGTGTGCTTCTGACTTTACCCTGTCCCCTAAGTCAAGGCCGAACCTCCA
GCCTGGTGGCTTTGCCAGAAGGGAGCCAGAAGTGGGGCAGACATGGAGCCCCCTCCCTTGG
TCAGACTCTGGGACTCCTGAGATGGGAGAGGCAGGGATCAGAGGACGAACAGGTGGGACT
TTGCGAGCTCTGTGACTGTCCACGTCCAGGAGACAAGGAAGGTAGGGCACCTGCTGCAC
ACGATTCTGTCCAGAGTGAGCACTGGATGGTGGAGACCATAGGTCACCCCAGATTCTTTG
ACCTATTTCTGGGACACCATATTTCCCTCCTCAGTGTGCACCCCTTTGAAGGGACCCAGCA
CAGGGTCTTGGGCCTGGGCAGTCTGAAGACTGATAACTTCCCCACTCCACCCTACAAGCA
GTGGGACTCCTGAGAACACGGTTCTCTCCTAGCCTCAGCCCCCAGCTGGGTCTCAGAGGA
GCTGGGGGAGCGGTGGCCAGCCCATTTTCTGGGGTGAGGCTTGACTTGGAGAAAGGCAGA
AGAGACGTCCCGCTTCTGTGATTTGGTGCCCCCATATCAGACAATGAATTTGGAAGTGGA
GAGGGGCCCTTCATTTCTTATCTACTTGGCATGAAAGGGTGCCCTGGATAGGAGGGTGTGT
ACAGGGCAAATGCCAAAAGCACTGTCTAGTTGAAAGTTCCCTTCTCCACCCAGGGGCA
GTGAAGGAGGAGGGCTTATAGAGCTGGGATTGGTGGAGGGAGCAGGTGCCAGTCCCCTC

FIGURE 1 (CONT'D)

ACTCTCTGGGAGCTGTGAAAGGGATCCCTGTCCTTGGGTCTGGGTAGGCACCTGAGAT
 TGACATGATGGGATCTAGATCTTTCTCCTTGACATCACCTGAGCCCCACCTAGCCATC
 CATGGGAGAGAGAAGGCCCAGCCCCCTCTAGAATGACTCTTTAGGCATGCGTGCATATGT
 GTGTATGTGTTTGTGCCCGTCTGTGTCTAGGTACCACCGTGGGTACATTGTTGGGCAGGA
 GTGTGTGCAAACACAGGTCTGTGTGTGCAATCTCACATATCTGCCTGTGAGACTGGATTG
 AGACCCATTTCGTTTCTATGAATGTCCGTGTACGTGAGCGTGTGTGTCCACCTTCCTGAGT
 GATGTGTTTCGCTTGTAGGGTGTCTGGCTGAATAGACTCTGTCCAGCCCTGTTCTGTAGTCT
 CAAGCTGCCTGCGATGGCCTGAAATTCCACCTTTTCATCCCCTATGGATGACGGAGAGCTT
 ACAGATGACCCCTATTGAATGCAAGCACCTTTGGTGAGGAGCATCACAGGGCTCCTTCTGG
 AGCATTTCGGTGGGGACAGCTGCAGAGAAGAGGCCTGGAACCTCGGGCAGCACTGCAGTGCC
 AGGAGGCAGGCGGGGAACCGAGGCAAAGGCTGCCCATCTCCCCCTGCCAGGCCTGTGTGA
 TCATTATCACCAACAGCTGGTGGGTGGCCGGGCCAGGATGCAGCGGGGCCTTCTGATGCC
 CAATCAGCACGGCTGCCTTCCTGACCCAGTCAAGGCCTCTGTCTGAAATGAGTCGCTCCA
 GGTTCCTCAGCATACACTTCCATCGCGTCTGTGCGGTATTGTTCTTAAGTGTCCCATCTG
 TGCAGAGTCCATTGCCCCAACTAGACTGTGAGCTCCTCCTCTGAGCCTTCCAAGTCCCCC
 CTCCACCTTCGCCACCTCCCGCTCGTGCCAGCACAAAGTGAGCCTGGTGTGAAACCACT
 CCATTGCCCCGGTGGAAATGGAATTCTGTAATCAGTGGTTTCTGGCCTTGCTGCAGAATAGA
 ACCACCAGAGTCTTTTAAAAAGTATTGCTGCTTGGTTTCCACCTCAGAGGTTCTGAGTTA
 ATTGGACTGGAGCGCAGTCGGACATCAAGAAATGTTGAAAAGCTCCTTGGGTTCTCCTGA
 CAGCAGGAACCACTGGCCTGGCACCACCTGGGTGCTTCCTCTGTGCCCTCGCTGGGGTAG
 GCATTGGAGCACCAAGAGATGAATAGCCCCAAGTGCTCCCTCTTTGGGGTTCCCAAGGCAC
 CCTGTGCCTGCTTCCCTCAGAGGACCTTCCAATCCATTTGCCCCGCAACCCTGGCTGCTC
 CGACAGGGGAGACTTGTCTCCCTTGTTCCTCCTCAGGATCCATAGAGTGGACAGTAAAGGT
 GCTCAGTACATGTTGGCTGAGCTGAACTGCATACATGTGGCCCCCAGGTTCTTGGTCTTT
 ATGGACGAAGGGCACAAGGTGGAGGGGGGATGGGGGGATGCTGCTGGAGGTCTCAGTGGG
 TGCAGACAGCCCTGCCTTGAGGATGGCTTGACCTGGGATTGACAAAATGTGTCTGCTGAA
 ATGCTGAGGTCCCCACGTGTGAATGGGTGAGGCTGATGTGGATGTCTGTGTGTGCCAGCA
 GGTGGGTGGGGGATGTGGGTGTGAGTGTATGCCAGTGGGCACTGTAAATGTCTAGGCATG
 TGCTGGTCTCTGTGTGTTTGTGTGTTCTCCTCAGCAGGAATGAGTGTCTTTGTGTATCACCT
 GGTGACTTGTGAGTGTCTGTGTCTGTGTGTGCCTGTGAGCCAGCATCTCTGTATCAGTGT
 TGCTCATGCTGTGTCTTTGTGCGCCATGGTGTGTGAGTGTCTGTGTGTTGATGGGTGGCC
 CATGAGTGACCCCCGCCAGGGGAGACCAGGCTGGCTGGATCCAGCACATCTCCCCAGTGG
 CAGCCTCGCCCTCTGGGTGAGGCTGACTGAGGCATTTTGTGGCCTTAAACCGGGGTGTTT
 AGGGTCAGCCCTCAGGGTGTCTGGGGCCCTTCCATCCCTTGTCCCCTTCAGGTTGGTGAAA
 AGGACTCCGGGGGCCAGGTGCTGTATAGCAGCTTATGGAAGTCTCAGCTGGGCTATCCTG
 CCCTTGGGAGCACAGACAGGCTCCTAGGGTGTGAGTGAAGCCTGAAGACCAAGCCCCCT
 CCTCCTGGAATGCTCCTTCCACCCCTACCTCTCAGAGATGGGCCTGACACCTCTTTCTCA
 TTCATTCTCCTTTTCCCTGTGCTCTGGGAAAGCCCTGGCTCAGGCTGTGAGAGTGAGGA
 TGGACCTCAAAAGTTTGATCCCCTCGTGAGATGAAGAAGCTGAAGCCAGAGTGGGGAA
 GGGGAGTGGCCCAAGGTACACAGCTAGTTTGAAGTAGAGCCAGTCTTGGGAGAGCCAAGT
 ACTACAGCCCTGGGGGTGTACACCGCTTGTCACTGCCCCCTGAGGTCTCCTGCCAAACAA
 CTGCAGGGAGTTTGGCTAACAGTCTGTGTCCAGGCTGCCGCTGGGGATGTTATAGATGT
 TGCTGGGATCCTGCCCTCGGCTCCAAATTCTGGCCTCTCATCCCAGGCTGCAGACCCCTTC
 TGCCCCATGACAGGCCTGGGTGCCACACAGAGGTGGCCACCCTCCCACCACAGTGTCTGC
 AGCTGCTGCCCTTCTCCCAGGCCCCCAGACAGAAGAGACCCTGTTTCCCCTCCTCTCCCC
 TGTGACTTCACAAGAGCTTGGGCTAGGAGTGAAGGTGAGCATGTTCTCATGTGCTCATCC
 TCTTGGTTTCCCCAAAGACCGGGAGGGTCACGGATGGGGCGTGAGAATCCTTGTGTTTTT
 TTCTCGCTGGGCAGCTTGAAGGGCTGGGGAGTATTCCCAGGGTCTTTGCTCTGGAGAGTC
 CCTGCAGAGCCACTGGCTGAGGTTGGGTTTCAAGGTTTCAAGGAGTCTCCATGCTTCCAA
 AGGCCGGGAAGCACCCGCCTCTCTATCGAGTCAAGTGTGTGCGTGTGTGTGTGTGTGTTGGGGCAGAAGG
 ACCACTCTTTCTGGGGATCCCTTGACCCCTTATAACTAGAAGGGACCTTAGGGAGCATCT
 AAGCTGGTGCCCCCATTGTACAGGCGAGGTCCAGAGGGATGGCATCTGCCACCCCCACCC
 CTTGCCCTCTTGTGCTGCACTCATTTCCAGGGACCTCCTAGGATAGGACTGCCCTC

FIGURE 1 (CONT'D)

CTTCCTGGCCCCCTCCCGCCATCCTCCCAGCCACCCACATAATCACCATCTCAGCCCAAC
TCTGGTGGCCCTCTAGGTCTCCATGCATTCTTCCTGCCCTAGAGTAGCCAGCTCACCAAG
GCCTTTATCCCCAGCCAGGAGAAGGGTCAGGGAGGGAAGGGGCTGCACCAGCCCTGAGA
CCTCAAAGACTTGGGAGAAAAGCCAAAACCTCCTCATGCCAGGCCACATGTCTGACCAC
CCCAGCCACCCCGCCACCAAGGTAAAAGCACAACAGGAGACCCCTTATTAATGGGTGA
AATGATTGGGGTTGTTTTTTTAGTCACACAGCCCCATCCTCACCCCTTTGCCTTGCTGTC
TGTCTCCACCCAGCCTCTGTTCCCCATTTGCCTCTCTTTCACCTCCAAGCCCCCAAATG
TAACCTCTAGTTGCGGACGCGGTTGTTCTATCAATAAAGCTGCAGTGTTCTAGCGCTCAG
CGT

Gene 476. >ENST00000229875 cDNA sequence

ATGGCCTCCCGCATCATCCACTACACAGAGCCCATCAACTCTCCGAACCTTTTACAGACAAC
ACCTGCCACTTTGAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACCTTT
GACTGGACGCGGCAGAATGCCCTCACCCAGAACCCCAAACGCTCCCCAACACTGGTCCC
CCCACCGACATAAGTGGCACCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCT
CGGGAGCTGGGGGACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTC
TACTGTGTCTCCTTCTTCTACCACATGTACGGGAAACACATCGGCTCCCTCAACCTCCTG
GTGCGGTCCCGGAACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAG
GGCAATGTGTGGCAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATT
TTTGAGGGGGTTTCGAGGCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCAACTG
AAGAAGGGGGAGTGTCCCCGGAAGCAGACGGATCCCAATAAAGGTGCAAGACGGGAAGGA
GGTGGGGGAGCTGAATCTGGAGGGAGCTGTGCGTGGCGGGGGTTCTGTCTGTTGAGGGA
GGGTGTTTTGGGTCTGAATAGGGGTTTCAATGTCTGAGTGATGGGAATCATGTGGCTCTG
ACTGTGTGA

Gene 477. >ENST00000248553 cDNA sequence

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCA
GCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCC
GCGTCCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGC
ATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTTCGAGT
GGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCATCGAGA
GCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGG
TCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCG
CCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGCAAGCAG
AGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGCTGC
CCCCCGGTGTGGACCCCAAGTTTCTCCTCCTCCTGTCCCCTGAGGGGCACACTGACCG
TGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCT
TCGAGTCGCGGGCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCA
AGTAAAGCCTTAGCCCGGATGCCCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCC
ACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAAC
CACCTGT

Gene 478. >ENST00000330572 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTTGCTGGAAAAGGAAGAGG
GAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTTCGGACAAG

Gene 479. >ENST00000327285 cDNA sequence

GTGCGCCTCCCGTCGCCCAAGATGCCGAAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCT
CTGGCCCCCTGCTTTTGTGAAGAAGCAGGAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAG
AAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAGAGACCTCACCTGC
TTTGTGAAATGGCCCCGCTATATCAGGTTGCAATGGCAGAGATCCATACTCTATAAGCAG
CTGAAAGTGCCTCCTGCGATTAAACAGTTTACCCAGGCCCTGGAAGGCCAAACAGCTACT
CAGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGTGGAGG
CTGTTGGCCCAGGCAGAGTTGGGCAAAGGGGACCTCCCCATGAAGAGACTACCTGTCTTT
CGAGCAGGAGTTAACACCGTCACCACTTTGTGGATAACAAGAAAGCTCCGCTGGTGGT

FIGURE 1 (CONT'D)

ACTACACACGACATGGATCCATTGAGCTGACTGTTTTCTGCCTGTCCTGTGTCTATAAA
ATGGGGGCCACTTGCTGCATTATCAAGGGGAAGGCAAGACTGGGATGTCTAGTTACAGG
AAGACCTACACCACTGTGACTTCACACAGGTTAACTCAGAAGACAAAGGAGCTTTGGCT
AAGCTGGTGAAGCTATCGGGACCAATTACAATGCCAGATACGATGAGACCCACTGTAC
TGGGACGGCAATGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCA
AAGGCTAAAGAACTTGCCACTAACTGGGTAA

Gene 480. >ENST00000285792 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCCCATCCA
CCTCACCCGCAGCCACAATCCTGAGACTTTCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCAGGGAAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTATTAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCAGCCGGGCCGGCCTCCCCTCCTGGCAATAC
CAACGCATTATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCTTGG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTAT
TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACATTTGTGCAGATCATCTAG
AAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGTTGTCTCCAAGGAGC
AGGGGTGGGGTGGGGTACTTCTAGGAGTCCTTGGAGAAAAGTAAGAAACCAGGAGTGTTT
CCAGTTCCACCCTTTCTGCGGCACCACCTCCCTTTTTATATTGCTGAATGCCAACCTCC
CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGAAGTTGGTTGCCACAGTCCAGGAGCAT
TTGAAGGCACAGTGCAAGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGGTTGGAAAATGT
TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
AACATGCTGTTTCTGTAGAGTTTTTTTGATGAGAGTTATAGTTGTTATATATACATAAAGA
TAATTTTCTTTTCATTTTTAAGTGAGAATCTTTTTATCCTAAATCTTTTATTATCTTTA
AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATAC
TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGAATTGTGAGAATTCAG
TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATGTATACTATCTATT
TTATTGGTTTTATTTTGAAAAACATGGGTACAGAATTATTTAAATATTATTTTATTATTG
AAATATTTATTAAATATATTTATTTTAAATATTATTATTACTTTAAATATTATTTTA
AATATTTTGGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGG
GTGTTATAACTGTTGTATACACATACATATAATTTTGTTCCTTTTTAAGAGAGGATTC
TTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAA
GGGAGCATGGTTTTTATCTATGATACTTAGTTAAATATATATTACATTTATAGCTATGT
GGTAGTTCCCCTAAATCTTGTAATAAATAAATTTTTATTG

Gene 481. >ENST00000222553 cDNA sequence

CGCGCGGCCCTGTCTCCGGCCCGAGATGAATCCTGCGGCAGAAAGCCGAGTTCAACATC
CTCCTGGCCACCGACTCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGC
AAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAGGAAG
GTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAA
GGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTTC
CAAGATGATGTCTTTAATGAAAAGGGATGGAACCTACATTCTTGAGAAGTATGATGGGCAT
CTTCCAATAGAAATAAAAGCTGTTCTGAGGGCTTTGTTCATTCCAGAGGAAATGTTCTC
TTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGACTATT
CTTGTTTCAGTCCTGGTATCCAATCACAGTGGCCACAAATCTAGAGAGCAGAAGAAAATA
TTGGCCAAATATTTGTTAGAACTTCTGGTAACCTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCAC
TTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTAT

FIGURE 1 (CONT'D)

GGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCATAACA
GCTTGGGGGAAAGACCATGAAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCA
GTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTACACAGGCACCACTAATAATCAGA
CCTGATTCTGGAAACCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAG
TTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGTTATT
CAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAA
ATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCTTCAAGTGTAGCTATGTTGTAATAATGGCCTTGGGATT
AACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTCAAAAGGGCCGATTATCT
TTACATAGGACGCCAGCAGGGAATTTTGTTACTGAGGAAGGAAAAGGAGACCTTGAG
GAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTAT
TCATTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGAT
GTGTGGGGTTTTGTGTTTTATGATACATTACAGCCAAATTATTTGTTGGTTTTATGGACATA
CTGCCCTTTCATTTTTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATGCATT
TAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGT
CATTCAATCTGGTATTGATCTTTTCAAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTA
ACTTGTATTTTTGTACAAACAAGATTGTGTAAGATATATTTGAAGTTTTAGTGATTTAAC
AGTCTTTCCAACCTTTTCATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGAAAAT
AAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTT
TGTGTTATTGTACAATTTGAAAATTATGTGCGGGACATACCCTATAGAATTACTAACCTTA
CTGCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTG
GAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAAAT
GCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTGAGAGATTGCCTGTGGCTCTAAT
ATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAG
AATATATACATAAATGTAAAATACTTACAAAAGTGG

Gene 482. >ENST00000292634 cDNA sequence

AGAGTCACATGGCTGGGACATGCCACGGTAATGGTGGAAATGGATGAGCTCATATTTCTC
ACGGATCCCCTCTTTAGCTCTCGTGCTTACCATCGCAGTACATGGGTCCAAAGCGATTT
CGTCGTTCCCCGTGCACAATAAGTGAACCTCCCTCCAATAGATGCGGTCTTATCAGTCAC
AACCCTATGACCATCTGGACTACAATTCTGTCTTCTGTTGAAATGAGCGATTTGGTAAT
GAGTTGAGATGGTTTGTGCCTTTGGGTCTCCTTGACTGGATGCAAAAATGTGGCTGTGAG
AATGTGATTGAGTTGGACTGGTGGGAGGAGAATTGTGTCCCGGACATGATAAGGTCACT
TTTGTCTTTACACCTTCCAGCACTGGTGTAAAAGGACTCTAATGGATGACAAACAAGGTG
CTATGGGGCAGCTGGTCTGTCTTGGGGCCTTGAATCGATTTTTTTTTCGCAGGAGATACT
GGTTATTGCCCTGCTTTTGAAGAGATAGGAAAAAGATTTGGACCTTTTGACCTTGACGCT
ATTCCCATCGGAGCTTATGAACCGAGGTGGTTTATGAAATACCAGCATGTAGACCCAGAA
GAAGCTGTAAGGATTCACACTGATGTCCAAACAAAGAAATCTATGGCAATTCAGTGGGA
ACTTTTGCCTTAGCAAATGAG

Gene 483. >ENST00000328403 cDNA sequence

GCCCAAGAGAGCAAACCTTGGTTTGTGAAAATCAGCAGATAAGGCAATTGAAAGGGAAG
AAGAACAACGACTATCGTCTATTCCACAAGATGAGTAACAGCCACCCTCTTCGCCCTTT
ACTGCAGTGGGGGAAATTGATCATGTGCACATTTTGTCTGAACATATTGGTGCCTTGTTG
ATTGGGGAAGAATATGGCGACGTACATTCTGTTGGTGGAAAAGAAACGTTTTCTGCCAC
AGGGTAATTTTAGCAGCCAGGTGCCAATATTTTTCGAGCATTATTATATGGTGGAAATGCGA
GAGTCTCAGCCTGAAGCAGAAATTCCTCTCCAAGACACCACTGCAGAAGCATTACAATG
CTACTCAAATATATCTACACTGGGCGGGCAACGCTGACAGATGAGAAGGAGGAGGTGCTG
CTGGACTTTTTGAGCCTGGCTCATAAATATGGATTTCCAGAGCTAGAGGATTCTACCTCT
GAGTATCTCTGCACCATACTTAACATTGAGAATGTCTGCATGACTTTTGATGTTGCCAGT
CTCTACTCACTTCCCAAGTTAACTTGTATGTGCTGCATGTTTATGGATAGGAATGCTCAG
GAAGTCTCTCAAGTGAAGGTTTCTCTCCCTTTCTAAGACAGCACTTTTAAACATCGTG
TTAAGAGACTCATTTGCAGCTCCCGAAAAAGATATTTTCTAGCCTTATTAAACTGGTGT

FIGURE 1 (CONT'D)

AAGCACAAATTCAAAGGAGAATCATGCTGAAATCATGCAGGCTGTGCGTTTACCTCTCATG
 AGCCTCACAGAGCTTCTGAATGTTGTGAGGCCTTCAGGACTGCTGTCTCCTGATGCCATC
 CTGGATGCCATTAAAGTGCATCTGAGAGCCGGGATATGGACCTCAATTATAGAGGCATG
 CTCATACCAGAAGAAAACATTGCAACTATGAAGTATGGAGCCCAAGTTGTAAAGGGGAG
 CTGAAATCAGCCTTATTAGATGGTGATACTCAAAATTATGATTTGGATCATGGATTTTCA
 AGGCACCCAATTGATGATGACTGCCGTTCCGGCATCGAGATTAAGCTAGGTGAGCCATCC
 ATTATCAATCACATACGATACTCTTGTGGGACCGAGATAGCCGGTCTTACTCATACTTC
 ATTGAAGTGTCAATGGATGAACTTGATTGGGTGAGAGTGATAGATCATTACAATATCTG
 TGTGCTTCTTGGCAGAAATTATATTTTCCAGCCCGTGTCTGCAGGTATATTGCAATTGTT
 GGGACTCACAACACAGTGAACAAGATTTTTCACATTGTGGCTTTTGAATGTATGTTTACA
 AACAAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGAGAATGTTGCAACAATT
 GCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAATGCCTTGCTGAATGGG
 GACACTAAGAATTATGACTGGGATTCTGGCTACACATGTCACCAGCTAGGAAGTGGTGCG
 ATTGTGGTTTCAGTTGGCACAACCGTACATGATTGGGTCAATACGGTTACTACTTTGGGAT
 TGTGATGATCGAAGCTATAGCTACTACGTTGAGGTTTCTACCAACCAGCAACAGTGGACC
 ATGGTTGCTGACAGAACTAAAGTCTCCTGCAAGTCTTGGCAGTCAGTAACTTTTGAAAGG
 CAGCCTGCCTCCTTCATCCGTATCGTTGGGACACACAACACAGCAAATGAGGTGTTCCAC
 TGTGTCCACTTTGAGTGTCCAGAGCAGCAGAGCAGCCAGAAGGAGGAAAATAGTGAGGAA
 TCGGGGACAGGGGACACCAGCCTGGCCGGTCAGCAGCTCGACTCCCATGCGCTGCGGGCG
 CCTAGTGGCAGCTCACTACCCTCCAGCCAGGCTCCAACCTCAGCTCCCCAACCGGCAG
 CACCAATAA

Gene 484. >ENST00000297431 cDNA sequence

ATGCCCCACTTGGAAAACGTGGTGCTTTGTGCGGAGTCTCAAGTGTCCATCTTGCAGTCC
 TTGTTTGGAGAGAGACATCATTTTCACTTTTCCATCCATTTTTATTTATGGACATACTGCT
 AGTGGAAAGACCTATGTAACACAAACGTTGTTGAAAACCTTTAGAGCTCCACATGTGTTT
 GTGAATTGTGTTGAATGCTTTACATTGAGGCTGCTTTTGGAAACAAATTTTAAACAAATTG
 AATCATCTTAGTTCTTCAGAGGATGGATGTTTCTACTGAAATAACCTGTGAAACATTTAAT
 GACTTTGTTTCGCTTGTTTAAACAAGTAACCACAGCTGAAAATCTTAAAGATCAGACTGTA
 TATATTGTTCTAGATAAAGCAGAGTATCTAAGAGATATGGAAGCAAATCTTTTGCCTGGA
 TTTCTTAGATTACAAGAATTGGCTGACAGAAATGTGACTGTTCTCTTTCTCAGTGAAATT
 GTTTGGGAAAAGTTTCGTCCAAATACTGGATGCTTTGAGCCGTTTGTCTTATATTTCCCT
 GATTACAGCATAGGCAACCTTCAAAGATCCTGTCCCATGATCATCCTCCAGAGTATTCA
 GCTGATTTCTATGCTGCCTACATTAAACATTCTTCTTGGAGTTTTCTACACTGTTTGTGCGA
 GATTTGAAAGAGCTCAGACATCTGGCAGTACTTAATTTTCTAAATATTGTGAACCCGTG
 GTTAAAGGAGAAGCAAGTGAACGTGATACTCGCAAACCTGTGGAGAAATATTGAACCTCAT
 TTGAAGAAAGCTATGCAGACTGTTTATCTCAGGGAAATATCAAGTTCCAGTGGGAAAAG
 CTACAGAAAGATGACACAGATCCGGGGCAACTGAAAGGCCTCTCAGCGCATACTCATGTG
 GAACTTCCATATTACTCTAAGTTTATTCTAATTGCTGCATACCTTGCTTCATACAATCCA
 GCAAGAACTGACAAGAGGTTTTTTCTTAAGCATCATGGAAAAATCAAGAAAACCACTTT
 CTAAAAAACACGAAAAGACAAGCAATCATCTCCTTGGGCCAAAACATTTCCACTAGAC
 AGATTATTAGCAATATTATATAGTATCGTGGACAGCAGAGTTGCTCCAACAGCAAATATT
 TTTTCCAGATTACCTCTCTAGTGACCCTTCAGCTGTTAACCTGGTTGGCCATGACGAT
 CAGCTTGATGGACCAAAATACAAATGCACAGTGTCTCTAGACTTCATCAGAGCTATTGCA
 AGGACGGTGAACCTTTGACATAATAAAATACTTGTATGATTTCTTGTGA

Gene 485. >ENST00000327597 cDNA sequence

TTGAGTATGCTCAGGCTTCAGAAGAGGCTTGCCTCTAGTGTCTCTGCTGTGGCAAGAAG
 AATATCTGGTTAGACCCCAATGAGACCAATGAAATCACCAATGCCAACTCCCGTCAGCAG
 ATCCGGAAGCTGATCAAAGATGGGCTGATCATCCGCAAGCCTGTGGGTCCATTCCCCCGC
 TTGATGCCGGAAGAAACACGCCTGCCGGAAGGGCAGGCATATGGGCATAGGTAAGCGGAAG
 GGTACAGCCAATGCCGAATGCCAGAGAAGGTACGTGGATGAGGAGAATGAGGATTCTG
 CACCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATTGATCGCCGCATGTATCACAGC
 CTGTACCTGAAGGTGAAGAGGAATGTGTTAAAAACAAGCAGATTCTC

Gene 486. >ENST00000333351 cDNA sequence

AAGAAGAGCGTCCCCAGGAGAAACAAGCTTGACCACTATGCTGTACAGAGTTTCTCTG

FIGURE 1 (CONT'D)

ACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGTTCACTGTGGAT
GTTAAAGCCACCAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACACTGATGTG
GCCAAAGTCCATGCCCTGATTAGGCCTGATGCAGGAAGAAGGCATAAGCTCCTGGCTCCT
GATTACAATGCTTTGGATATTGCCAACAAAATTGGGATC

Gene 487. >ENST00000323716 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCTCGCCTGGGAGAAG
CCGCCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTTCCGG
GAGGCGGAGCTCAGACCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTTGCTGTG
GCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGTGGCCCCCGCGAGCCTCCTGCCCTG
GCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGGGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTCAAGTCCGCGAGGTGCCCTGG
AAGAAGGGACGTGAGAGGGTCAAGTGTGCGGGCGCTCGGCCCGGCCTCAGACGGGAGGTA
CCTGGGAGTCACAGTGGTCCAAGACCTCGCAGCCTGAAGACTTAACTGATGGTTTCATATG
ATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGCTGGAGTCAACGGAGG
ATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAACAATGCAGCCTTTTCAGTTA
ACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAACAAAATCAACCATT
CCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTG
AAAATCAAATCAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTC
CTCTGAACTCTGCTGTGCAGCTGGCTGGACTGACATTGTTGACAAACATGACTGTTACCA
ATGACCACCAGCACATGCTTCACAGTTACATTACAGACCTGTTCCAGGTGTTACTTACTG
GAAATGGAAACACGAAGGTGCAAGTTTTGAAACTGCTTTTGAATTTGTCTGAAAATCCAG
CCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTTCATCATTCTTTCCCTTTATGACA
GCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTCAGAATATAAAGAACT
GCCTCAAATAGAAGGCCATTTAGCTGTGCAGCCTACTTTCACTGAAGGTTTCATTGTTTT
TCCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAGTTGATCACCATGATG
CAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATCTGATTGGTTCATATTTTTCC
AAAGAGTAATGCAGTCTGGATATAAACGTATTTTTCTGTCTTCTTATAAGGGGATTCTCC
CAGCTGCTAAATTTAAACAGTAAATATCACATTTTGTCTTAACACAGCTATAAATTGCC
GTGGTTCTCAGATTTATTTTGGACTATTTTGTATGCCAAGTGAATATAAGAGCTTGTACTG
AAACCATTTATTTCTTTCTATTTTGTCTATTTGCAAATGCTTGTATCTTCCCTACATGAA
GTGGCAGTAACCTTTTTTACATTTAAGCTACCTTCTACCTTTTGAAGTGATTTGCAGTT
ACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTCAAACTGAATAGTCTTG
TTCTTTTAGTAGCAACGAAATCCTAAGCTCTTGAGGCCATTACCTGCCAACCTGACCAT
ACTGCTTTCAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTCACTTCTAGTCAATGA
AAAATGTAACTTTTAGGAGAGAATGTTTCTTAGGACTCACCCACTCCATTCAATGTTAT
ATATAAAATAGTGTGATCAATCAATGTCCATCTTTAGACAGTTGGTTAAATAAATTAT
CTGGTCTTTGAAAAGACCGTGTCTGGGCGCGGTGGCTCTTGCTGTAAATCCAGCACTTTG
GGAGGCTGAGGCGGGCAGATCACCTGAGATCGGGAGTTTGAGACCAAGCCTGACCAATAT
GGAGAAACCCTGTCTCTACTAAGAACACAAAATTAGCTGGGCATGGTGGTGCATGCCTGT
AATCCCAGCTACTTGGGAGGCCGAGGCAGGAGAATTGCTTGAACCCGGGAGGCAGAGGTT
GCAGTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTCTGTC
TCAAAAAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAAGTGAAAGATATCTATGAA
ATATGGTGGTTTTTTTAAACACAAAATTATAGAATATGGGATCCCGTGTGTGTGTGTGT
GTGTTTGAATGAAAATGCTTATGTATTGACAGAACTTCTAGAATGATACCCAACTC
CTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTACTGTTTGAATTTTTTA
ATATGAGCCCAAATTGTATAATCTTTTTTTAATAAAGGGGAGAAAAATC

Gene 488. >ENST00000306450 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCTCGCCTGGGAGAAG
CCGCCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTTCCGG

FIGURE 1 (CONT'D)

GAGGCGGAGCTCAGACCCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTGCTGTG
GCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTGCCCTG
GCCCCGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGGGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTGAAGTCCGCAGAAGACTTAA
CTGATGGTTTCATATGATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGC
TGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAAACAATG
CAGCCTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAA
ACAAAATCAACCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACC
TGAGTGTGAATGTTGAAAATCAAATCAAGATAAAGATATACATCAGTCAAGTATGTGAGG
ATGTCTTCTCTGGTCTCTGAACTCTGCTGTGCAGCTGGCTGGACTGACATTGTTGACAA
ACATGACTGTTACCAATGACCACGACATGCTTCACAGTTACATTACAGACCTGTTCC
AGGTGTTACTTACTGGAATGGAACACGAAGGTGCAAGTTTTGAACTGCTTTTGAATT
TGTCTGAAAATCCAGCCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTATCATTCC
TTTCCCTTTATGACAGCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTTC
AGAATATAAAGAACTGCCTCAAAATAGAAGGCCATTTAGCTGTGCAGCCTACTTTCACTG
AAGGTTTATTGTTTTTCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAG
TTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATCTGAT
TGGTCATATTTTTTCAAAGAGTAATGCAGTCTGGATATAAACGTATTTTCTGTCTTCCTT
ATAAGGGGATTCTCCCAGCTGCTAAATTTAAACAGTAAATATCACATTTTGTCAATTAACA
CAGCTATAACTTGCCGTGGTTTCTCAGATTTATTTTGGACTATTTTGATGCCAAGTGAATA
TAAGAGCTTGTACTGAAACCATTTATTTCTTTCTATTTTGCTATTTGCAAATGCTTGTTA
TCTTCCCTACATGAAGTGGCAGTAACCTTTTTTACATTTAAGCTACCCTTCTACCTTTTG
AAGTGATTTGCAGTTACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTAC
AACTGAATAGTCTTGTTCTTTTAGTAGCAACGAAATCCTAAGCTCTTGAGGCCATTCAAC
TGCCAACTGACCATACTGCTTTCAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTC
ACTTCTAGTCAATGAAAAATGTAACTTTTTAGGAGAGAATGTTTCTTAGGACTCACCCAC
TCCATTCAATGTTATATATAAAATAGTGTGATCAATCACAATGTCCATCTTTAGACAGTT
GGTTAAATAAATTATCTGGTCTTTGAAAAGACCGTGCTGGGCGCGGTGGCTCTTGCCTGT
AATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACCTGAGATCGGGAGTTTGAGACC
AAGCCTGACCAATATGGAGAAACCTGTCTCTACTAAGAACACAAAATTAGCTGGGCATG
GTGGTGCATGCCTGTAATCCCAGCTACTTGGGAGGCCGAGGCAGGAGAATTGCTTGAACC
CGGGAGGCAGAGGTTGCAGTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAA
GAGCAAACTCTGTCTCAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAGTGG
AAAGATATCTATGAAATATGGTGGTTTTTTTAAACACAAAAATTATAGAATATGGGATCC
CGTGTGTGTGTGTGTGTGTTGAATGAAAAATGCTTATGTATTGACAGAACACTTCTAGA
ATGATACCCAACTCCTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTAC
TGTTTTGAATTTTTTAATATGAGCCCAAATTGTATAATCTTTTTTTAATAAAGGGGAGAAA
AATC

Gene 489. >ENST00000323735 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTGCGGGCCCCGGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGACCGCCCCGCTCGCCTGGGAGAAG
CCGCCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTCCGG
GAGGCGGAGCTCAGACCCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTGCTGTG
GCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTGCCCTG
GCCCCGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGGGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTGAAGTCCGCAGGTGCCCTGG
AAGAAGGGACGTGAGAGGTCAGTTGTGCGGGCGCTCGGCCCGGCCTCAGACGGGAGGTA
CCTGGGAGTCACAGTGGTCCAAGACCTCGCAGCCTGAAGACTTAACTGATGGTTTCATATG
ATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGCTGGAGTCAACGGAGG
ATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAAACAATGCAGCCTTTTCAGTTA
ACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAACAAAATCAACCATT

FIGURE 1 (CONT'D)

CCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTG
 AAAATCAAATCAAGATAAAGGTGCAAGTTTTGAACTGCTTTTGAATTTGTCTGAAAATC
 CAGCCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTTCATCATTCTTTCCCTTTATG
 ACAGCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTTCAAGATATAAAGA
 ACTGCCTCAAAATAGAAGGCCATTTAGCTGTGCAGCCTACTTTCACTGAAGGTTTATTGT
 TTTTCCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAGTTGATCACCATG
 ATGCAGAGGTGAAGGAAAAGGTTGTAAACAATAATACCCAAAATCTGATTGGTCATATTTT
 TCCAAAGAGTAATGCAGTCTGGATATAAACGTATTTTCTGTCTTCTTATAAGGGGATTCT
 TCCCAGCTGCTAAATTTAAACAGTAAATATCACATTTTGTCTTAAACACAGCTATAACTT
 GCCGTGGTTCTCAGATTTATTTTGGACTATTTTGTGCTTAAAGTGAATATAAGAGCTTGTA
 CTGAAACCATTATTTCTTTCTATTTTGTCTTAAAGTGAATATAAGAGCTTGTA
 GAAGTGGCAGTAACCTTTTTTCAATTTAAGCTACCTTCTACCTTTTGAAGTGATTTGCA
 GTTACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTCACAACTGAATAGTC
 TTGTTCTTTTAGTAGCAACGAAATCCTAAGCTCTTGAGGCCATTACCTGCCAACCTGAC
 CATACTGCTTTCAAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTCACTTCTAGTCAA
 TGAAAAATGTAACTTTTAGGAGAGAATGTTTCTTAGGACTCACCCACTCCATTCAATGT
 TATATATAAAATAGTGTGATCAATCACAATGTCCATCTTTAGACAGTTGGTTAAATAAAT
 TATCTGGTCTTTGAAAAGACCGTGCTGGGCGCGGTGGCTCTTGCTGTAAATCCAGCACT
 TTGGGAGGCTGAGGCGGGCAGATCACCTGAGATCGGGAGTTTGAACCCGGGAGGCAGAG
 TATGGAGAAACCTGTCTCTACTAAGAACACAAAATTAGCTGGGCATGGTGGTGCATGCC
 TGTAATCCAGCTACTTGGGAGGCCGAGGCAGGAGAATTGCTTGAACCCGGGAGGCAGAG
 GTTGCAGTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTCT
 GTCTCAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAGTGGAAGATATCTAT
 GAAATATGGTGGTTTTTTTAAACACAAAATTATAGAATATGGGATCCCGTGTGTGTGTG
 TGTGTGTTTGAATGAAAAATGCTTATGTATTGACAGAACACTTCTAGAATGATACCCAAA
 CTCCTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTACTGTTTGAATTTT
 TTAATATGAGCCCAAATTGTATAATCTTTTTTTTAAATAAGGGGAG

Gene 490. >ENST00000229866 cDNA sequence

GATGGGGGAGCCCGGCTTCTTCGTACAGGAGACCGCGCCGGTGGCCGGAGCTGGTGCCT
 GCGGCGGGTGGGGATGAGCGCCGGGTGGCTGCTGCTGGAAGATGGGTGCGAGGTGACTGT
 AGGACGAGGATTTGGTGTACATACCAACTGGTATCAAAAATCTGCCCCCTGATGATTTT
 TCGAAACCACTGTGTTTTGAAGCAGAATCCTGAGGGCCAATGGACAATTATGGACAACAA
 GAGTCTAAATGGTGTGTTGGCTGAACAGAGCGCGTCTGGAACCTTTAAGGGTCTATTCCAT
 TCATCAGGGAGACTACATCCAACCTTGAGTGCCTCTGGAATAAAGGAGAATGCGGAGTA
 TGAATATGAAGTTACTGAAGAAGACTGGGAGACAATATATCCTTGTCTTTCCCCAAAGAA
 TGACCAATGATAGAAAAAATAAGGAATTGAGAACTAAAAGGAAATTGAGTTTGGATGA
 ATTAGCAGGTCTGGAGCTGAAGGCCCTCAAATTTGAAATCCAAAATAAATAAAGTGTC
 TTGTGAATCTGGTCAGCCAGTGAAATCACAGGGGAAAGGTGAAGTGGCCAGTACACCCTC
 TGACAATTTGGATCCTAAGTTGACTGCCCTTGAGCCAAGTAAGACCACAGGGGCTCCCAT
 TTACCCTGGCTTCCCCAAAGTACAGAGGTTTCATCATGAGCAGAAAGCCTCAAACCTCTTC
 AGCATCTCAGAGAAGCTTACAGATGTTTAAAGGTGACCATGTCCAGGATTCTGAGGCTCAA
 AATACAGATGCAGGAAAAACATGAAGCCGTTATGAATGTGAAAAAGCAGACCCAAAAGGG
 GAACTCAAAGAAAGTTGTGCAAATGGAGCAGGAACCTTCAGGACTTACAGTCCCAGCTGTG
 TGCAGAGCAGGCTCAGCAGCAGGCAAGAGTGGAGCAACTAGAGAAGACTTTCCAGGAAGA
 GGAACAGCATCTTCAGGGTTTGGAGATAGCCCAAGGAGAAAAGGACCTGAAGCAACAGCT
 GGCCAGGCTCTGCAGGAGCATTGGGCTCTAATGGAAGAGCTAAATCGCAGCAAGAAGGA
 CTTTGAAGCAATCATTCAAGCCAAGAACAAAGAATTAGAGCAGACCAAGGAAGAGAAGGA
 GAAGATGCAAGCACAGAAGGAAGAAGTTCTTAGCCACATGAATGATGTGCTAGAGAATGA
 GCTCCAATGTATTATTTGTTTCAAGAATACTTCATTGAGGCTGTACCTTGAAGTGTGCCCA
 CAGTTTCTGCTCCTACTGTATCAATGAATGGATGAAGCGGAAGATAGAATGCCCCATTTG
 TCGGAAGGACATTAAGTCCAAAACGTAATCTTTGGTTCTGGACAATTGCATTAATAAGAT
 GGTAAATAATCTGAGCTCAGAAGTGAAAGAACGACGAATTGTTCTCATTAGGGAACGAAA
 AGCAAAGAGATTGTTCTGAAGACCGTGCTCTAAGGGCATTGAAAGACTGCCAGGTAGTG
 CGAGCCTGAGATGGTCTGGAGGATTCTCTCTAGCCGTGACTCCGCTGCTCTGAAGGTCAA

FIGURE 1 (CONT'D)

CTGAGAAGTCTTGTGGGACAGAGACTTGAGTTAGGAAGCCCTCAGTCACTTGCCCTTCCAC
GGTGGCCAGCCCTGCTGCCATCATTGGCTGAAGCACCACCAGGATTACGGCACCCAACT
GCTTCAGGGTACTTCGTAGACTCTGCCTCACTACATGTCGAAAGAGTTATTTGAGTTCTC
TTCTGTTTTTTTTTAATTTGTTGTTGTTGTTACTGTTTTGATACCTCGGAAACACCTCCG
TTGACAGTTGTTTTGGATAGGTTGGGTGTACCCCATGGCTGCCTCTGAAGGCAGTGTCTA
TTTTGAGAGGATGGCTTACCTCTTCTTTGTGAAAATACTATCTCATTTCCTGGAATAAA
ATGTA AACCTGT CAGTTGCT CAGCTGGGCTTTGGTGTATTTACCTTCCTTCCCTTCCTG
CTCCAGACAGTCTCACAAGTAAACACCAGCAGCTCATAGATTACAACCAAGAAAGTGAC
TGTATCAGATGATAGACTTCAAGTGAATGT CAGCCTAAGAGGCCAAGCTGCAGATCGTGG
CAACAGATGAGCTCTGTAACTCCTGACTGTCTGTGTTTCTTTTTATTACAGAGGTGGG
TCACTGTTTACCTTGTTTTAGGGGTGGGAGAACTCCTTTCTTCCTTCAGCTGGCATTGGAAT
GTTTCCAAATCTATTTTATCTGACGT CATGAACACACAGGCAATGATTTTATGACAACTT
GATGTGCTTTTTCTTTATTTTTCTTTTACATTAGAAGTTTTCTCTCTTTTCTCCACCTC
TCCTTTATTTTTAATTTTAATTTTAATTTTTGAAACAAGATCTGACTCTGTTGCCCAAGC
TGGAGTACAGTAGTGCAATCTCAGCTCACTGCAACCTCCACCTCCAGACTCAAGCCATC
CTCCACCTCAACCTCCCAAGTAGCTGGGACTACAGGCATATGCCATCACACCCAGCTAA
TTTTTGTTTTCTGTAGAGACAGGGTTTTACCATTGTTGGCCAGGCTGGTCTCAAATTCCT
GACCTTAAGTGATCCACCTGCCTAGGCCTCTAAAATGCTGGGATTACAGGCGTGAGCCAC
CACGCCCAGCCTATACCCCATGTATTTTTATAAAGGGTTGGAACTATTGATTGCCAACT
TTTTAAGGATGGTAGGGATTTTTCTTTGTTGAATATACTGTGAATTTTGGGATTCTGGA
GTCCTTAGTCTTCATTTCCATTCTTCTGCCCATTGATTACTGATCAAAATACTGGTAGAGT
CATGGAGGAAGTAAGTTAAATGTGGAAAAAATGCTTTAAAAGTACTTACTATAACCACAT
CATAAGAATTCTGGAAAAATAGAGAACAAAAGGAAAAGATTGTTACCACCTTGATTTAAT
AACTTCTTGTTTTCCCATACATGTGTTTTGTTTATAGATTGCATGGGTATATGTCAATTT
TTATATGTTCTGTGTTTAGTTTTACATATTGTAATTCATTTTTAAGAGAGTACAGACATAC
ACTTTTTGAGTAGGCAATATGTTCCACATAGTTTGAAATTAAAGGTACAAAATGGCGTAGA
ATGAAATGCCTCTCACCTTTTCCCCACAGCGACTACTTCCCACTCAGAGGCAACAAGTAT
TACAGTTGCTTGATATTCTTCCAGAGATCTCTGTCTATAACAAGCAAAAACACATGTGGT
CTTTTTCTTGCTTTGCACAAATGGTAACTGTACGCTATTCTGAACCTTGCTTTTTTCA
GATATATGTTGGCAACAGTTCCATGT CAGTACATAGTTTCCTTTCTTTATTACAGCTGCC
TGTTTTTTTCAATTGTGTATTTGCACCATCATTTACTTTTTCTGGCTTACTTTTGATAGAAAT
CTAGGTTGGTTCAAACCTTTTTACTCTTAAAAAATGCTGCAGTTAACACCTTGTACAT
ATATCTTTAGAGAGAAGATATTTTTAAAAAGAAATACCTTTTTAAAAAATTATTTTATTATT
TTTTAATAGAGACTATGTTGCCTAGGCTGGTCTTGAAATTCTGGGCTAAAGCAATCCTAC
CACCTTGGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCATTGCACCTGGCCAAGAAG
AGACATCTTGACTTGAGCCTGAAGACTATGTACAGAGACTGACCTCACAGACTGACCATT
CCATCCCACAGCTGCTGGACATAGAGTGATTTGCAGCCCTCCTTTT CAGAGTACCACATC
CCTCTCAAGTGTTCCACAACATCTAGGAAAGTGAGCTCTTAAAGACAGACTAAAAAGAGT
AATAAATCAATACAACAACATTAAGGAGGAGCTAGCGGAGTTTGAATCTTGGCCCTGCT
GTTAGTAACTGTGTGAGCCTTGGGCAAGTTACTCAGCCTCCTTGTGTCTTGGTTTTGGTT
TCTTCATCTCTAAGTAATTATATCTGTCAATTATTGCCCTGATCAAAAACAAAAGCCTGAA
TGTAATATGTTTAAAGACAAAACAAAATTAACCCAACTTGCAATTATTTGTCTGAGCT
ACAGAATGTTCTTTCTTGAGAGATATCTGATATTAAACATCATCTGCATTTTACTTGC
CTAGAAAATACACGGTAACTTTCTGCCTTG CAGCATCAAACTATAGTACAGCTGAGCCC
CAGTGCTGTGCAGTCTGACTCTAATTAAAGGCACCTTCTTTACAGCAGGGCTCTGGGGAA
CTGGAAGGGGGGTTTGTTCATTATCTGGTTTTATTAAAGCAGATGAATGCAGCCAGCTA
TATGAAGCACTTTGCAGTGAATGGCAGGTGTCCCATATCTGGTTATGTTAACCTAGAAAG
GGCTCACTCTACCTCTAGGCATGTTTCATCCCAACAATCAGACTGTGCCAAAGCAGGGGA
CTTTGTCTTTGTGGATTGCATAGCTGGATACCCATCATCTGTTTCTCTGATTGGAAGCT
GCTGTTGTACAGAAAGACCTGCATTTCCCCCTTGTCTCCAGTTCTCTCACTACTTTTTCC
TCCTCTGTGAGTGACCATCCAGGCAGTCACCATAACTGCTGGAGTGTCTGGGATTGGTAG
CTCTCTCCAACCTGCCTGCTTGCTCTTTACAGCCTCTCTCTGTGACTGGAATCTCTCCACC
TCATCGTATCTAAGGATAACCCAGAAACATGGGGTGTCTAGGTATGTTTATCTCGACAC
TGAACCCCTAGGCTTCTGATGAATCCAGTGATTAGCTAAATTTGACATAGAAAGTAAGA

FIGURE 1 (CONT'D)

AGGAATGTCTACTTTGTATTGTGGTCCTAATCTAAGATCAGGAGAATCCTGGAATTGTTA
TCTGTCTCTTGCTCTGAGATACAGACTTGTTCTAGGTGTGGGGCCTGATTGGAACAGGA
TCTGCCATTGGTCACAATAGGTCAAGGGCTTGTTCTGAACCTAGTTAGCTTCATTGAGA
GAAAGAACTTCCTACCTGGTCAGCTTTTTTCAGCTTCTCCAACAAATGGGAGTTGAGGCA
GTAGGAGTGTGGGGTTCTTGGGAAGACGATGGGGCCTTGTATTAAGGAGAAATAATGAAC
TATCTTCTTGATTCTTCCATTGAGAAAAGCATATGAATCCTAGGAAAGGGCTCAGCCTGT
GATAGGCATTCAATAAATACTCCAATGCTGTCTATTCTTTGTCTACAGCATCCCCAAACA
ATGTACCAGTGATGGGCTACCTGAGCTCATCTAGTCGCCAAGCAGTATCTCCTGCTTGCT
GCTGCTTTACTACATTCCAGATGCCCACCTCATCCAATTTCCAGAGCCACTATCTCTGCT
GTCCACTTTCTTCAGGCTCTGTGAATACTTCAACCTGCTGTGATTTGGGGCCGTTTGTA
CTCTGCATGTATTCAATAAATTCAATTGAGCAATAGTT

Gene 491. >ENST00000229492 cDNA sequence

GGCTATCTCCAGCAAACTGAGAGGAGGAAGTTGACCCTGCAGCGGAAGCGGGAGGAA
TATTTTGGCTTCATTGAACAGTATTATGACTCTCGAAACGAGGAACATCACCAGGATACC
TACAGACAGATTACATTGACATTCCAAGGACGAATCCTCTCATTCCGTTGTTCCAGCAA
CCACTTGTACAGGAGATCTTTGAAAGAATTCTATTTATTTGGGCCATCCGCCACCCTGCC
AGTGGGTATGTCCAGGGAATTAATGACCTGGTCACTCCATTCTTTGTCTCTTCTCTCA
GAATATGTGGAAGAGGATGTGGGAACTTTGACGTGACCAACTTGTCTCAAGACATGCTG
CGAAGCATTGAGGCTGACAGCTTTTGGTGCATGAGCAAGCTGCTGGATGGAATCCAGGAT
AACTACACCTTTGCACAACCAGGAATCCAGAAGAAGGTGAAGGCACTGGAAGAGCTTGTC
AGCCGGATTGATGAGCAGGTACATAATCACTTCAGGAGGTACGAGGTAGAATACCTGCAG
TTTGCTTTCCGCTGGATGAACAACCTGCTTATGCGGGAGCTTCCTCTTCGCTGCACCATC
CGCCTGTGGGACACATATCAGTCTGAACCAGAAGGGTTCTCCCACTTTTCATCTCTACGTG
TGTGCAGCCTTCTTGATCAAGTGGAGGAAAGAGATCTTGGATGAGGAGGATTTTCAGGGT
CTCCTCATGCTGCTACAGAACCTACCTACAATACACTGGGGCAACGAAGAAATTGGGCTG
CTTCTCGCCGAGGCATACAGACTCAAGTACATGTTTGCCGATGCCCCAAATCACTACCGC
CGATAGGTGCTGTCTCCTCCGGGGACCCAGACTGCCTTCATCTCTGATGGCAGTCTGATC
ACTGTGGCCACTGTGCGAGCCGTGGACCCCGGCCAGGAACCACTCCTGTTGTACAAAGCT
CACACCCACCGCCAGGTCTTAACCTTTCTGGCATCCACCACTCCATGTCTCTGGATGTGT
CACTTGGACCACTGTGAGTATTCCATGCCGCGTGGATGGGGCCAGTTCTGGGAGAGGACA
GAAAAGGTGGTACAGGGTTGTCTGCCCCCTTTAAAAGAACTGGACAAAGAAGGGGAAGGC
TCAGGGTCTCACCTCACATTGTCCCTACAAGGACAGGCCCAACTGATAACCGTTGCTTT
TTTTTTTTTGTGAACATAGTTTGATTTGATCACAGGTCAAAAACGCCTTATATTTTCGAA
AGACTCCTGGCCCCCTCTTCCCTCTTCTGGTTTTCTAGCCGTTCCCTTTCTGCCCCAGTC
TGAGCCAGTGAGGGGTAGCTTTTTTAAACCAATTATTCTAGATGGAGGAGGCACTGATGCT
TGTAACCTCTGGAAGAGGCCTACACCCAAGGGCTAGGAATTTTATTTTTCTTTCTCAC
CAGGTGTCTGCATGTGTGTGTGGGTGTGAATGTGTATACATGCCCATCAGCATTTAGTCA
CATGTCTGAATTTCTGTGTCCAGACGAGCCCCATCAAAGTGTGGGAAGGGCCCCAGTG
ACCAAGTGTATAAGCATCCCTTGAAGAGGGATTGGGGCAGGGGAGGCAGAAGGGGCTCTC
CAGACCCCTTTTCCATGATGACCACTCCAAGATATTATGTGTAAATTGTGTTATTATGT
ATATGGGTAAAGATGTACAAATATATGTCTCTTTGTAGCAGATATGATTTTATATTTAT
AATGTGCATCAACATGTGAAAGCAATCTAGGTCACTAGCACAGAGGAAGTTGCCAGGAAG
GTGGCTTCAGCACCTCCAGGTTGGTTCTGGGTGTCTGCTGTGAGGGGTAGAACGGGAGG
CTGCTGAAGTGAGTAGCTGAGCAGCTGGAGCCATCCCAAGCATCAGTGTCTCAGAGTCCT
CCTCGCCCCCTTTCTTACCCCGCCCCCAACCCCCAGACTTTCTGGAGCATCTGCCCTT
TGCTCCTAGCAGCCTCCCCAGGAAGGGACTGCAGAGGCGGGCAAGCCCTCTCTATGTGTT
TTTATCCCCACCTTCCCCGGAATCTGGGGAGGGCTTTTGTTTTTACGTTTTCAAGTTCAG
CATTGTATTCCGACAGAAGCTGTGACTGAAGACTCAGTGCCAAGGAAAGGGGCTTCTTGT
GTGTCCCTCGGGTTTGGGGCTCTTCTCAGAGAGCAGCACTCCATATCCCTTACTGTACC
TTCACCTCCCCACACAGCTCATGAGATGTGTGACCCCTGTTTGAAGTTTGGTATTTGGTAG
TGGAGGGTGGGGGGATGGGGGCCAGCAGCTGTCTCCTCTGGGAAGCCGAGCAGTGTCC
CTGGTGGGTAAACACCTCAAGTCTCTTGGCCAGTGAGGCCCCACCACATCGGTGTGAGTT
AGGTTTCTCATCTGGAGCTGTTTCTCAGGCATTCTTCCCAACCTCTTCTTTTCCCTT
CGGTGTGCCTCAGTGGTCTCCTTCATAGAGTGAGAGGGCTTGAGACCCTCCCTCAACCGG

FIGURE 1 (CONT'D)

ACTAATTAAAGAAAGACACTTGTGTTCCCAAGTGGTGGTTTTATTTTTTTAGTTTTTATG
TTTGTATGGGAAATTGTGGATAAAGTGAAAAGAATTGTAAATAAATGGTGTATTTCTCTCC
TCC

Gene 492. >ENST00000287218 cDNA sequence

ATGGGAGACGCTGGGAGCGAGCGCAGCAAAGCGCCAGCCTGCCGCCTCGCTGTCCCTGC
GGCTTCTGGGGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCTGATTTTCAA
AAGAAACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCAGATTTGTTT
TCCGAAGAGACCACCAGTGACAACAACAATACCTCGATAACCACGCCAACTCTTAGTCCC
AGCCAGCAGCCGCTTCCGACAGAACTGAATGTAACCTTACCGAGTAAAGAGGAGTGTGGG
CCATGCACAGACACAGCTCATGTCTCATTAATCACACCAACAAAAAGATCCTGTGGTACA
GATTCACAGTCTGAGAATGAGGCTTACCAGTAAACCGCCACGACTACTTGAGAATACG
GAACGGTCCGAGGAAACAGTGCATCTAAACAGAAGAGTGCACGTCGGTGCTTCCAGTGC
CAAACCAAACCTGGAGCTGGTGCAGCAGGAATTGGGATCGTGTGCTGCGGTTATGTGTTT
TGTATGTTACATCGCTCCCCGAGCAGCAGACTGCACATTGACCACATGGGCCGTGGC
CGGGAGGAAGCCATCATGAAAATGGTGAAGCTGGACCGAAAGTGGGGCGCTCCTGCCAG
CGCATCGGGGAGGGGTGCTCCTGA

Gene 493. >ENST00000317631 cDNA sequence

CGTCTGGCCGTGAGATGTTTTCGGGAGCCGGGGTCTCTCCGCTGCAGACATGACGAAGGGC
CTTGTTTTAGGAATCTATTCCAAAGAAAAAGAAGATGATGTGCCACAGTTCACAAGTGCA
GGAGAGAATCTTGATAAATTGATAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGA
CCACCTCTGAAGGCAGGCAAGACTCGAACTTTTATGGTCTGCATCAGGACTTCCCCAGC
GTGGTGCTAGTTGGCCTCGGCCAAAAGGCAGCCAGAATCGACGAACAGGAAAACCTGGCAG
GAAGGCAAAGAAAACATCAGAGCTGCTGTTGCAGCAGGATGCAGGCAGATTCAAGACCTG
GAGCTCTCTTCCGTGGAGGTGGATCCCTGTAGAGATGCTCAGGCTGCTGAGGAGGGCGCG
GTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAAAAGAAGATGGCTATGTGCGGTG
AAGCTCTATGGAACCTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCCTGTTTGCTTCTGGG
CAGAACTTGGCAATGGAGACGCCAGCCAGCAGATGATGCCAACCAGATTTGCCGAAATT
ATTGAGAAGAATCTCAAAAGCGCTAGTAGTACCGAGTTTCATATCAGACCCAGGTCTTGG
ATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCAAAGGATCTGACGAGCCCTCA
GTCTTCTTGGAATTTCACTACATAGGCAGCCCCAATGCAGACAAACCACCCCTTTTTGTT
GGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGAC
CTCATGAGGGCCGACATGGGAGGAGCTACAACTATATGCTCAGCCATTGTGTCTGCTGCA
AATCTCAGTTTGCCATTAAATATTATAGGTCTGCCCCCTCTGTGAAAACATGCCCAGCGGC
AAGGCCAACAAAGCTGGGGGATGTTGTTAGAGCCAGGAACAGGAAGACCATCCAGGTGGT
AACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACGTGCACACATTT
AACCCGAAGGTCATCCTCAATGCCACCACCTTAACAGGTGTCATAGATGTAGCTTTGGGG
TCAGGTGCCACTGGGGTCTTTACCAATTCTCCTGGCTCTGGAACAAGCTCTTCGAGGCC
AGCATTGAAACAGGGGACCGTGTCTGGAGGATGCCTCTCTTCAAACATTGTACAAGACAG
GTTGTAGATTGCCAGCTGGCTGATGTTAAACAACATTGGAAAATATAGATCTGCGGGAGCA
TGACATCTGCGGCATTCTGAAAGAATTCTGTGACTCATCCTAAGTGGGCACATTTAGAC
ATAGCAGGTGTGATGACCAACAAAGATGAGGTTCCCTATCTATGGAAAGGCATGACCGGG
AGGCCCAAGGACTCTCATAGAGTTCTTACTTCGTTTCAGTCAAGACAATGCTTAG

Gene 494. >ENST00000314952 cDNA sequence

ATGCTATTCAATTGTCTATCAGTGTGGGGGCACAATATATTTTAGTTTAAGGTGCTTGATG
AACACAATGATTACATGGACCCTCCATGTCAGCCTTGGAAGTTGTGATTCTGAGGCTGGG
AAGCTGGACTATCTTTGGAAGCTAAATTTGGAAGTGAAAGGGGGATGTAGGATATGA

Gene 495. >ENST00000301990 cDNA sequence

ATGCAGAAGCATTACAGGTGGCCTGGTTTCTTTACTCAGCCCCTGGGGTAGATCCCAGC
CCCCCATGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAGTGGTCAGATGAATCTGCGGAG
GAGCCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGT
GGGCTCAAGATGAAGCTGAAGCAACAGCGAGTGTCACCCATCCTCCCTGAGCACCACAAG
GGCTTCAACAGTCAGCTTGCCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGC
TGGAAAAGGAAGATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGG
AAGGTGCTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAG

FIGURE 1 (CONT'D)

ATGAAGCTGAAGCGACGGCGAGTGTGCTCGTCTCCCTGAGCACCACGAGGCCTTCAAC
 AGGCTGCTTGAGGATCCTGTCAATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTG
 TCGGACAAGTATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCTTCCCCTCC
 TGGCAATACCAACGCATTCAATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAG
 GACGACGAGGACTCCAAACAAAACATCTTCCACTTCCTGTATGGGAAGAACCGCTCTCGC
 ATACCCTTGCTCCGTAAGCGTTGGTTCCAGTTAGGCCGCCGTTCCATGAACCCGAGGGCC
 AGGAAGAACCGCTCTCGCATACCCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCC
 ATGAACCTGAGGGCCAGGAAGAACCGCTCTCAGATAGTCTGTTCAGAAACGTCGGTTC
 CAGTTCTTCTGTTCATGAGCGGCAGGGCTTGGGTTTCCCCGAGGAGTTGGAGGAGATC
 CAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCGCCTTTCCTAGAGC
 TCCAGGGACCGTGGAGGCCTGAGGTCACTGGCCTGAGAGAAGAACACCGGACCCAGGGGA
 GATGTGGATTTTTCAGCAGGAACTTTATTCCAATGCTAATGGCAGACACCAGGAAGGAGGA
 GAGGAACCATTTGTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATA
 CAGTGATCACGTTGTCTCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAG
 GAGTCTTGGAGAAAAGTAAGAAACAGGAGTGTTCAGTTCCACCCTTTCCTGCAGCA
 CCACCACCCTTCTATATTGCTGAATTCACCTCCCTGGGGCGGAACCTGGAGGTGCTG
 TTTCTTATGGACTTGGTTACCACAGTCCAGAAGCATTGAAGGCACAATGCAGGGGCTCA
 GATTGGCACAGATTTCTTCTGTGAAATATCAGTGCCACAGATTGTAACAGATAGCTTCAT
 GCACACTCTGCATTTTATTGGTTTGGTTTGGAAAATGTTGGCCATTGAATTATTATAGAT
 TTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAACATGCTGTTCTGTAGTTTTT
 TGATGAGAGTTATAGTTGTTATATATACATAAAGATAATTTTCTTTTCATTTTAAAGAGA
 CAATTTCTTTTATCCTAAATATTTTATTATCTTTAAATTTCTTTCTGTATTATTATATGT
 GCTCCTGAAGCGAGCACTCTTTTATCTATGATACTTCATAATAATCTCTTCTATTTAT
 AGCTATTGGTAGTTCCCCACCACAAAAAACATAATTCTGGTGATAGAAATTTTTATTT
 GCTGTTTAGGTTTGTGACTGAATTGTGAGAATTCAGTTGTGATTTTTAACATGTCTCAGA
 TATATATACTAACACGTCTAATATATACTATCTATTTTATTGGTTTATTTTGAACCAT
 GGGTATAGAATTATTTAAATATTATTTTATTTATTGAAATATTTATTAAATATATTTATT
 TAAATATTATTACTTGAAATATTATTTTAAATATTTTGAATACTGCTATTTTGAATA
 GATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATACTGTTATATACACATACGTATA
 ATTTTGCTTTCTTTTAAAGAGAGGATTCTTTTCATCCTAAATCTTTTACCTTTCAATCT
 TTGTATCTATTATTACACGTGTTGCTGAAGGGAGCATGGTTTTTATCTGTGATACTTAGT
 TAACATATATATTACATTTATAGCTATGTAGTAGTTCCCCTAAATCTTGTAAAAATAAA
 TTTTATTG

Gene 496. >ENST00000310324 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCG
 CCCTTAATCCATTTAACCCCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
 GGTAAAGGTCACAGATCAACAGGATCCCAAGGCAGAAGAATTTTCTTAGTGCAGAACAAA
 ATGAAAAGTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
 ATCTTTTCCCCACCTTTCCCGCCTTTCTATTCCACAAAGCCGCCATTGTATCCTGGCCC
 GTTCTCAATGAGCTGTTGGGCACACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
 CTCACTTCCCAGTAG

Gene 497. >ENST00000315790 cDNA sequence

TTTTTTTTTGGAGACAGAGTCTTTCTCCGTCGCCAAGCTGGAGTACAGTGGGGTTATCTC
 GGCTCACTGCAACCTCCCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCGGAGTA
 GTTGGGGCTACAGGTGTACACCACACGCTGGGCTAATTTTGTATTTTATAGTAGAGATG
 GGGTTTCAACATGTTAGCCAGGCTGGTCATGAACTCCTGGCCTCAAGTGATCGGCCCGCC
 TCAGCCTCCAGAGTGCTGGGATTACAGGCATGAGCCACCTTGCTGG

Gene 498. >ENST00000248600 cDNA sequence

GCCACTTCCGGGAGTCGGAAAGGAAAGCTGTGGGACCATCCTGGCAACCCCGGTGTTTGG
 CTGGGTTCTAGCGTAGCCGTCTGTGTGGCCGGTGGGGGACCTGCGGTGCGAGTGGGAGGG
 CCAGTCTGCACCAAGAGGTGGAAGAGGACGGGCTTTAGGCTGGAAGCGCCTTAGAGGAG
 CCATTTTTCAGGTGGGGCCCCAGGCAGAGGCTCCGACAGGGAGCCTGGCCATAGTCGCG
 CAGCCGGGGAGGTGGAGCGCGTCCAGACCCGAGCCCCGACCTCAGCCAAACCCATTCC
 TTCTGCCCTTGGAGGCCAGAGGGGACTCTGAGCTCCGGAAGGATGCCTGGTTTGCTTTT

FIGURE 1 (CONT'D)

ATGTGAACCAACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACCTCTCCAGATTAAAC
AGACCCCAACTATCTCTGTTTATTGGATGTCCGTTCAAATGGGAGTATGACGAAAGCCA
TGTGATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCTTCTCCCGGAGTCTGT
GGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCTGGAGAT
ACTCTTAAAGATGATGATGATGATTGAGCTCTGATGGTGTATGGCAAAGATCTTGTGCC
TCAAGCAGCCATTGAGTATGGCAGGATCCTGACCCGCTCACCACCAACCCCGTCTACAT
CCTGAAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACTTTCTCCGGACCCAGAAGAT
CATCTGGATGCCTCAGGAAGTGGATGCATTTTCAAGCCATACCCATTGAAATCGTGCCAGG
GAAGGTCTTCGTTGGCAATTTTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAA
AATCAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGATGCTGA
CAAGCTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCAGATTCTTCCCTTCTTACG
CCACATGTGTCACTTCATTGAAATTCACCATCACCTTGGCTCTGTCACTTCTGATCTTTTC
CACCCAAGGTATCAGCCGAGTTGTGCGCCATCATAGCCTACCTCATGCATAGTAACGA
GCAGACCTTGAGAGGTCTGGGCCTATGTCAAGAAGTGCAAAAACAACATGTGTCCAAA
TCGGGGATTGGTGGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCAC
AAACATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCACCGAAGGGTACTGAAGAGC
CTCACCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGA
AGGAGAAGGCCTTTGCTGCCTGAAAGTCTCATGTT

Gene 499. >ENST00000315758 cDNA sequence

GGCGCTGGGCAGTGTGGAGGTGCTTGGAGTCACTTCCCCGTCAACAGCTCCTGTGCCTGC
CAGTCGGTGGCCCTCCCGCTCCAGCCATGCTCTCCGCCCTCGCCCGCCTGCCAGCGCTG
CTCTCCGCCGAGCTTCAGCACCTCGGCCCAGAACAAATGCTAAAGTAGCTGTGCTAGGGG
CCTCTGGAGGCATCGGGCAGCCACTTTCACTTCTCCTGAAGAACAGCCCTTGGTGGAGCC
GCCTGACCTCTATGATATCGCGCACACCCCGAGTGGCCGAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAG
GTTGTGATGTGGTAGTTATTCCGGCTGGAGTCCCAGAAAGCCAGGCATGACCCGGGACG
ACCTGTTCAACACCAATGCCACGATTGTGGCCACCCTGACCGCTGCCTGTGCCAGCACT
GCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCACCATCCCCATCACAG
CAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTTGGATCCAGCTCGAG
TCAACGTCCCTGTCACTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGT
GCACCCCAAGGTGGACTTTCCCCAGGACCAGCTGACAGCACTCACTGGGCGGATCCAGG
AGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTGCCACCCTCTCCATGG
CGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG
TTGTGGAATGTTCTTTCGTTAAGTCAAGGAAACGGAATGTACCTACTTCTCCACACCGC
TGCTGCTTGGGAAAAAGGGCATCGAGAAGAACCTGGGCATCGGCAAGTCTCCTCTTTTG
AGGAGAAGATGATCTCGGATGCCATCCCCGAGCTGAAGGCCTCCATCAAGAAGGGGGAAG
ATTTTCGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGTTTCTTAATTTATGA
AGGCATCATGTCACTGCAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATC
AATAAAAGCCGCTCCTTGATTTTATTTTCAAGGTCCCTTCTGT

Gene 500. >ENST00000316266 cDNA sequence

CACCAGGAGGAAATAATTCAAGTTGGCCATGCAGCTGAGACACATTGGGGACAACATT
GATCATAGGATGGTTCGAGAGGATCTTCAACAGGATGGCAGAGATGCACTAGATCATTTT
GTCTTCTTTTTCTTTAGAAGAGTTCAGGTGTTGCTGCATTTTTCTGGAACAACCATTTG
CTGTAAAAGGAAAGTAAAGGTCAAGTGGTCAAGTTCTGTTTTCTTTTTACCCTCTGAGAA
ACATGAATCCCACTGGGACAGATGGGAAGAACACCCTTCTCCGTCTCCCTCTTTTTGTAC
CCATCACTGTTGGTCTACACCCAGTTTGTGTAAGAACTGCGGGTTACAGAGCCATTTGTC
TCTTCGGAGGAGCTAGCTATGAGATGTCTGCGATCACATCACGGTAAAGCCCAAGGAGTA
ATTAGGACCCAGGAAGCCTTGCTGCCAGAAAACACCAGCGCTGTGGATGGTCCCAGGG
CTCCTTGTGAGGAAACCTTGAAACATTTCTTCCAGGAATGAAAGAGAACCTCGTCCTCAA
ACTAAAGGCCACAGAAATGGGCACTACCTCCTGGCCCACTCCCTGGGCACCATGCCCTCT
GGTGACCTGTTGGCTCCACTCTTGTCACTCATGTCCAGATCTGCAGTGCCAGCTTCTCCT
TCTCGGTGACATGTCACTCCCTGCCCAATCCTGGCTCCAACCCTCTCTGGAATTCGA

FIGURE 1 (CONT'D)

AGTGAAACATTTGTCTCTAATACTCAAATTCAACATATGGCTCATCTCATCTACCTTCCC
ATTTCCATGCCTAGAGGCCCCACTACTACCCTAGCACCGTTGGGTGTTTCCTTCTCAGG
CTCTGATTCTACAACATTTACGTTCTTTTCTCACCTTTGATCCCCTCACTCCTCTGTGAC
CCCCTTCAAGTCTTCCTTACCCTCCAGTGTTTTCCCATACCACTCGACCCTGCTCGAA
GGTATCTTTCCCTGCTCTGTCTCTCTTTTAGGCATGCCTGCTTAAATCGGGAGTGCT
TAGTCCTTGGCCAACAGTCTGCTTCTAGAGAATGTAAGACCTGAAAGAGTTATGAAT
CTATCACTAGGCAAAAACCTTCTCTTTTCTATTGCTGGATGGTTTTGCTATTATTGGTTG
GTGGGCCCTTTGCCTGTGGAATGTATTTCACTCATTCTCTCTGACGCTGTTAGGCAGT
TCTTTACCTGCATGCTTCTTCTTTTACCTTTTTGTCTACCTCATAGTCCCTCTCTCCCC
TCCTTTAAAGAATTATAAATATTAGGAAAGCTTGTTGTTATAAATTAAAGTTTACATA
TGTATCTTGAGTTCTTCATAGGGGAAGTGTTATTTTAAAAAATTCTAAAAATGAAATAAA
TATTGTTATTTTATTGAGCATGAAA

Gene 501. >ENST00000301956 cDNA sequence

ATGTGTCTTGGCGGCCTAGACTAGGCCGTCGCTGTATGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTCGGCCCCGGGCCCCCTCGGGAG
CAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCGCCAGCG
ACAGCAGCCCCCGCCCGGCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCCCAGGAG
GGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACATTGCAG
GGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTG
GACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTT
TCTGTGGGGTATGATTATCACCAGCCAAACATCATCATGGAGTGGAGGTGAAGGAAGTG
GAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCCAGAA
CCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCA
GTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTCTGGATGCTGGT
GCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTCAGAC
AATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAATCTCTTTTCACTCTGAAACA
TCACACATGTAAGATTCAAGAGTTTGCCGACCTAACTGAAGTTGAAACTTTTCGGTTTTCA
GGGGGAAGCTCTGAGCTCACTGTGTGCACTGAGCGATGTCACCATTTCTACCTGCCACGC
GTCGGTGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGGAAAC
CCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACC
TGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAG

Gene 502. >ENST00000248606 cDNA sequence

CGAGCATCGCATAGCCTGCGGGGCTGGATGCTGACCGCCCGGGCCAGCACCTAGGCGGAC
GCGGAGCTGTGCAGACCAGGGTTTCGCGCGGGCCGGGTGGAGGCTCAAGCGGGGACCCCGG
AGCGTGAGCCCCGGAGTCGGCGGCGCTGGGGCCAGAGGGGCGGGAGGGAGTCGGCTGAG
GTGGCGGCGGAGGCGAAGTGGCGGCGGAGGCGAAGGGGCGGCGGGACCCGGGCCTGGCCC
GTATGTGTCTTTGGCGGCCTAGACTAGGCCGTCGCTGTATGGTGAGCCCCAGGGAGGCGG
ATCTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTCAGGCCCGGGCCCCCT
CGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCG
CCAGCGACAGCAGCCCCCGCCCGGCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCC
CAGGAGGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACA
TTGCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGCGG
CAACTGGACCCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCAT
CTAGTTTCTGTGGGGTATGATTATCACCAGCCAAACATCATCATGGAGTGGAGGTGAAG
GAAGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGT
CCAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTT
GCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTC
TGGATGCTGGTGCCACTAATATTGGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATT
GAAGTTTCAACAATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAAGTCTTAC
TTTACAGTCTCTTTCACTCTGAAACATCACACATGTAAGATTCAAGAGTTTGCCGACCT
AACTGAAGTTGAAACTTTTCGGTTTTTCAGGGGAAGCTCTGAGCTCACTGTGTGCACTGAG
GCGATGTACCATTTCTACCTGCCACGCGTCGGTGAAGGTTGGGACTCGACTGGTGTGTTG
ATCACGATGGGAAAATCATCCAGGAAACCCCTACCCCCACCCAGAGGGACCACAGTCA
GCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTA

FIGURE 1 (CONT'D)

AGAAGGACGTGCCTGCTTCCCCCTTCGCCTTCTGCCGTGA
Gene 503. >ENST00000320938 cDNA sequence
ATGAAGCAGGTGCCCCAACCCTGCCCCAAGGTGCTGAGCCGGCGCGGGGTGCGCGCTGGG
CTGGAGGCGGCGGAGCGCGAGAGCTTCGAGCGGACTCAGACTGTGAGCATCAATAAGGCC
ATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACACGCCAGAAATATCCTTTTGGATAGC
CCATCCGTTGTTTTCCATAACCCCCCTCACCGTGCATACTGGGCACCCACCATGAGAAA
GGGGCACAGACCTTCTGGTCTGTTGTCAACCGCTGCCTCTGTCTAGCAACGCAGTGCTC
TGCTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTTG
AAGGACTCTCTGAGATACAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTG
AGCGAGGGGTATGGCCAGCTGTGTCAGCATCTACCTGAACTGCTAAGAACCAAGATGGAG
TACCACACCAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGACCGCCAGCTGGAC
GAGGCTGGAGAAAGTGACGTGAACAACTTTTTCCAGTTAACAGTGAGATGTTTTGACTAC
CTGGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCT
GTGTCCGTGACGGCAGCAGGGCAGTGCCGCTCGCCCCGCTGATCCAGGTCATCTTGAC
TGCAGCCACCTTTATGACTACACTGTCAAGCTTCTCTTCAAACCTCACTCCTGCCTCCCA
GCTGACACCTTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTACAAAGTTGAAAGAT
CTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTGAGATCCCCAGCTG
CCTGAGAACCCACCCAACCTTCTGCGAGCCTCAGCCCTGTGAGAACATATCAGCCCTGTG
GTGGTGATCCCTGCAGAGGCCTCATCCCCCGACAGCGAGCCAGTCTAGAGAAGGATGAC
CTCATGGACATGGATGCCTCTCAGCAGAATTTATTTGACAACAAGTTTGATGACATCTTT
GGCAGTTCATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAATGGTGTGAACAAGGAT
GAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTA
GAAAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTCAGCGAG
CTGGAAGCAGATCTGGCCGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAA
TTCCTGCGGGCAGAACTGGACGAGCTCAGGAGGCAGCGGGAGGACACCGAGAAGGCTCAG
CGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCGATATAGCAAGCTA
AAGGAGAAGTACAGCGAGCTGGTTTCAAGAACCGCTGACCTGCTGCGGAAGAATGCAGAG
GTGACCAAAACAGGTGTCCATGGCCAGACAAGCCCAGGTAGATTTGGAACGAGAGAAAAAA
GAGCTGGAGGATTTCGTTGGAGCGCATCAGTGACAGGGCCAGCGGAAGACTCAAGAACAG
CTGGAAGTTCTAGAGAGCTTGAAGCAGGAACCTTGCCACAAGCCAACGGGAGCTTCAGGTT
CTGCAAGGCAGCCTGGAACTTCTGCCCAGTCAGAAGCAAACCTGGGCAGCCGAGTTTCGCC
GAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTA
TCTGCTCTTTCGGAAGAAGCTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGCAAGA
TCTATGTGCCAGCTTGCCAAAGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCT
GCGGAGCAGGTGATACAAGACGCCCTGAACCAGCTTGAAGAACCTCCTCTCATCAGCTGC
GCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTGCATCGAGCAA
CTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCAGAAGACATCAGTGGACTTCTCCAT
TCCATAACCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGC
CTCAGAGCCCCACCTGAGCCTGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGG
GAAACCTTCGCCTACCTGGCCTCCCTGGAGGAAGAGGGAAGCCTTGAGAATGCCGACAGC
ACAGCCATGAGGAACTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCTCCTGCCCAGG
GGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACT
TCAGCTGCTATTGAAAAGTCCACCGCCAGAATAGAGGAGATGCTCAGCAAATCCCGAGCA
GGAGACACAGGAGTCAAATTGGAGGTGAATGAAAGGATCCTTGGTTGCTGTACCAGCCTC
ATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAAGGACCTCCAGAGAGAGATTGTGGAG
AGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAACTCTCGATGGACAGAA
GGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTGATGGTGGATGCAGCT
GATCTGGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATT
GCTGCTAGCACAGCCCAGCTTGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCC
AACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGTGAACCAGGCCACTGCCGGCGTTGTG
GCCTCAACCATTTCCGGCAAATCACAGATCGAAGAGACAGACAACATGGACTTCTCAAGC
ATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGCTAGAGCTA
GAAAATGAATTGCAGAAGGAGCGTCAAAAAGCTGGGAGAGCTTCGGAAAAAGCACTACGAG
CTTGCTGGTGTGCTGAGGGCTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAA

FIGURE 1 (CONT'D)

GAAGTGGTAACCGAAAAAGAATAG

Gene 504. >ENST00000229784 cDNA sequence

GGAACCGCCGCCGGTATCCGCGTCCGCGAGCGCCGAGCCAGGCGAGAGCCGTGTGGGAT
 CCCAGCGCCCGCACTCCCGCCCCGCCAAGGAGCCAGGAATGGCACAAGTAGAGAGGAGC
 GCCATCTCTGGCTTCAGCTCTAAGTCCAGGCGAACTCATTTCGCATATGATGTTAAGCGT
 GAAGTATACAATGAGGAGACCTTTCAACAGGAACACAAAAGGAAGGCCTCCTCTTCTGGG
 AACATGAACATCAACATCACCACCTTCAGACACCACGTCCAGTGCCGCTGCTCATGGCAC
 AGGTTCCCTACGATGCGTGCTTACAATCTTTCCCTTCCTAGAATGGATGTGTATGTATCGA
 TTAAAGGATTGGCTTCTGGGAGACTTACTTGCTGGTATAAGTGTGGCCTTGTGCAAGTT
 CCCCAAGGCCTGACACTTAGTTTGGCTGGCAAGGCAACTGATTCTCCTCTCAACATCGCT
 TATGCAGCTTTCTGTTCTTCGGTAATCTATGTAATTTTTGGATCGTGTCAATGTCC
 ATTGGTTCTTCTTCTGGTGAGTGCTCTGCTGATCAACGTTCTGAAAGTGAGCCATTTC
 AACACGGTCAACTGGTATGGGATCTTTCGTCAAGAATGAGTTTTCGGCCCTCCTAC
 CTTATGGGCTATAATAAATCCTTGAGTGTGGTGGCAACCACAACCTTTCTGACTGGGATT
 ATTCAGCTAATAATGGGCGTATTGGGTTTGGGCTTCATTGCCACTTACCTTCGGAGTCT
 GCAATGAGTGCTTACCTGGCTGCTGTGGCACTTCATATCATGCTGTCCAGCTGACTTTC
 ATCTTTGGGATTATGATTAGTTTCCATGCCGTCCTATCTCCTTCTTCTATGACATAATT
 AATTACTGTGTAGCTCTCCCAAAGCGAATTCACCAGCATTCTAGTATTTCTAACTGTT
 GTTGTGCTCTGCGAATCAACAAATGTATCAGAATTTCTTCAATCAGTATCCATTGAG
 TTTCCCATGGAATTATTTCTGATTATTGGCTTCACTGTGATTGCAACAAGATAAGCATG
 GCCACAGAAACCAGCCAGACGCTTATTGACATGATTCTTATAGCTTTCTGCTTCTGTGA
 ACACCAGATTTAGCCTTCTTCCCAAGATAATTTTACAAGCCTTCTCCTTATCTTTGGTG
 AGCTCCTTTCTGCTCATATTTCTGGGCAAGAAGATTGCCAGTCTTCACAATTACAGTGTC
 AATTCCAACCAGGATTTAATAGCCATCGGCCTTTGCAATGTGTCAGTTTCAATTTTTCAGA
 TCTTGTGTGTTTACTGGTGCTATTGCTAGGACTATTATCCAGGATAAATCTGGAGGAAGA
 CAACAGTTTGCATCTCTGGTAGGCGCAGGTGTGATGCTGCTCCTGATGGTGAAGATGGGA
 CACTTTTCTACACACTGCCAAATGCTGTGCTGGCTGGTATTATTCTGAGCAACGTCAAT
 CCCTACCTTGAAACCATTTCTAACCTACCCAGCCTGTGGAGGCAGGACCAATATGACTGT
 GCTCTTTGGATGATGACATTCTCATCTTCAATTTTCTGGGACTGGACATTGGACTAATT
 ATCTCAGTAGTTTCTGCTTTCTTCATCACCAGTGTTCGTTTACACAGAGCTAAGATTCTT
 CTCCTGGGTCAAATCCCTAACACCAACATTTATAGAAGCATCAATGATTATCGGGAGATC
 ATCACCATTCTGGGGTGAAATCTTCCAGTGCTGCAGCTCAATTACATTTGTAAATGTT
 TACTACCTAAAGCATAAGCTGTTAAAAGAGGTTGATATGGTAAAGGTGCCTCTTAAAGAA
 GAAGAAATTTTCACTTGTGTTAATTCAAGTGACACCAATCTACAAGGAGGAAAGATTTGC
 AGGTGTTTCTGCAACTGTGATGATCTGGAGCCGCTGCCAGGATTCTTTACACAGAGCGA
 TTTGAAAATAAATGGATCCCGAAGCATCCTCCATTAACTGATTCACTGCTCACATTTT
 GAGAGCATGAACACAAGCCAACTGCATCCGAAGACCAAGTGCCATACACAGTATCGTCC
 GTGTCTCAGAAAAATCAAGGGCAACAGTATGAGGAGGTGGAGGAAGTTTGGCTTCTAAT
 AACTCATCAAGAAACAGCTCACCAGGACTGCCTGATGTGGCGGAAAGCCAGGGGAGGAGA
 TCACTCATCCCTTACTCAGATGCGTCTCTACTGCCAGTGTCCACACCATCATCCTGGAT
 TTCTCCATGGTACACTACGTGGATTACGGGGGTAGTCGTATTAAGACAGATATGCAAT
 GCCTTTCAAAACGCCAACATTTTGATACTCATTGCAGGGTGTCACTCTTCCATAGTCAGG
 GCATTTGAGAGGAATGATTTCTTTGACGCTGGCATCACCAAGACCCAGCTGTTCTCAGC
 GTTCACGACGCCGTGCTGTTTGCCTTGTCAAGGAAGGTATAGGCTCCTCTGAGTTAAGC
 ATCGATGAATCCGAGACAGTGATACGGGAAACCTACTCAGAAACAGACAAGAATGACAAT
 TCAAGATATAAATGAGCAGCAGTTTTCTAGGAAGCCAAAAAATGTAAGTCCAGGCTTC
 ATCAAGATCCAACAGCCTGTAGAAGAGGAGTCGGAGTTGGATTGAGCTGGAATCAGAA
 CAAGAGGCTGGGCTGGGTCTGGACCTAGACCTGGATCGGGAGCTGGAGCCTGAAATGGAG
 CCCAAGGCTGAGACCGAGACCAAGACCCAGACCGAGATGGAGCCCAGCCTGAGACTGAG
 CCTGAGATGGAGCCCAACCCCAATCTAGGCCAAGAGCTCACACTTTTCTCAGCAGCGT
 TACTGGCCTATGTATCATCCGTCTATGGCTTCCACCCAGTCTCAGACTCAGACTCGGACA
 TGGTCAGTGGAGAGGAGACGCCATCCTATGGATTCTACTCACCAGAGGGCAACAGCAAT
 GAAGATGTCTAGGAGATGAACTAGAAATAAGGGGTGAGATAATGCTGGCAAATCCTCCTA
 CCCAAAAGGGGTCAATTGTCCAGAGACCTAGACTGGATACGAACTAGCAGTACTTCTT

FIGURE 1 (CONT'D)

CCTGACTGTGACTCCTACTACCTGCCAGCCTTCTTCCTTGCTCTGCGCTGGGATCATACT
 CCCAAATCACATTACTAAATGCCAACAATTATCTCTGAATTCCTATCCAGGCTCCCCTC
 ATTTTACCTTCAGCATATATTCTAGTCATGAATTTCTTCTTACACACCCACATCTCT
 GGGCTTTGTGCCAGACCATCTCTAACTTAATCCTCTCATCCCTGTTCCCCTTTCTCCAA
 GAGATGAAGCTCAAATAAAATGTATAACTCTAGT

Gene 505. >ENST00000310888 cDNA sequence

GCTGGGAGACGCCTGGGCGCCGGGGGCTGCAGGTCCCAGGGCGGGGGCTGCGTCCGTAC
 CGGCAGGTACCCAGGTATGCCGAGAGCCAGGCACGCCGTGGGCACTCAGTCAGTATCTG
 TGAATGAATGAATGATGGTCGTCCCTGGGAGCTTATCTCTGAGGAATGGCACTACTAGA
 GAGGAGCGCCATCTCTGGCTTCAGCTCTAAGTCCAGGCGAACTCATTGCGATATGATGT
 TAAGCGTGAAGTATACAATGAGGAGACCTTTCAACAGGAACACAAAAGGAAGGCCTCCTC
 TTCTGGGAACATGAACATCAACATCACCACCTTCAGACACCACGTCCAGTGCCGCTGCTC
 ATGGCACAGGTTCTACGATGCGTGCTTACAATCTTTCCCTTCCTAGAATGGATGTGTAT
 GTATCGATTAAAGGATTGGCTTCTGGGAGACTTACTTGCTGGTATAAGTGTGGCCTTGT
 GCAAGTTCCCCAAGGCCTGACACTTAGTTTTGCTGGCAAGGCAACTGATTCTCTCTCAA
 CATCGCTTATGCAGCTTTCTGTTCTTCGTAATCTATGTAATTTTTGGATCGTGTATCA
 AATGTCCATTGGTTCTTCTTCTGGTGAGTGCTCTGCTGATCAACGTTCTGAAAGTGAG
 CCCATTCAACAACGGTCAACTGGTCATGGGATCTTTCGTCAAGAATGAGTTTTCGGCCCC
 CTCTACCTTATGGGCTATAATAAATCCTTGAGTGTGGTGCAACCACAACCTTTCTGAC
 TGGGATTATTAGATTATTGGCTTCACTGTGATTGCAAACAAGATAAGCATGGCCACAGA
 AACCAGCCAGACGCTTATTGACATGATTCTTATAGCTTTCTGCTTCCTGTAACACCAGA
 TTTTACGCTTCTTCCCAAGATAATTTTACAAGCCTTCTCCTTATCTTTGGTGAGCTCCTT
 TCTGCTCATATTTCTGGGCAAGAAGATTGCCAGTCTTCACAATTACAGTGTCAATTCCAA
 CCAGGATTTAATAGCCATCGGCCTTTGCAATGTGTCAGTTTATTTTTAGATCTTGTGT
 GTTTACTGGTGCTATTGCTAGGACTATTATCCAGGATAAATCTGGAGGAAGACAACAGTT
 TGCATCTCTGGTAGGCGCAGGTGTGATGCTGCTCCTGATGGTGAAGATGGGACACTTTTT
 CTACACACTGCCAAATGCTGTGCTGGCTGGTATTATTCTGAGCAACGTCAATCCCTACCT
 TGAAACCATTTCTAACCTACCCAGCCTGTGGAGGCAGGACCAATATGACTGTGCTCTTTG
 GATGATGACATTCTCATCTTCAATTTTCTGGGACTGGACATTGGACTAATTATCTCAGT
 AGTTTCTGCTTTCTTCATCACCAGTGTTCGTTTACACAGAGCTAAGATTCTTCTCCTGGG
 TCAAATCCCTAACACCAACATTTATAGAAGCATCAATGATTATCGGGAGATCATCACCAT
 TCCTGGGGTGAAATCTTCCAGTGCTGCAGCTCAATTACATTTGTAAATGTTTACTACCT
 AAAGCATAAGCTGTTAAAAGAGGTTGATATGGTAAAGGTGCCTCTTAAAGAAGAAGAAAT
 TTTTACGCTTGTTTAATTCAAGTGACACCAATCTACAAGGAGGAAAGATTTGCAGGTGTTT
 CTGCAACTGTGATGATCTGGAGCCGCTGCCCAGGATTCTTTACACAGAGCGATTTGAAAA
 TAACTGGATCCCGAAGCATCCTCCATTAACTGATTCACTGCTCACATTTTGGAGAGCAT
 GAACACAAGCCAACTGCATCCGAAGACCAAGTGCCATACACAGTATCGTCCGTGTCTCA
 GAAAAATCAAGGGCAACAGTATGAGGAGGTGGAGGAAGTTTGGCTTCCTAATAACTCATC
 AAGAAACAGCTCACCAGGACTGCCTGATGTGGCGGAAAGCCAGGGGAGGAGATCACTCAT
 CCCTTACTCAGATGCGTCTCTACTGCCAGTGTCCACACCATCATCCTGGATTTCTCCAT
 GGTACACTACGTGGATTACGGGGGTTAGTCGTATTAAAGACAGATATGCAATGCCTTTCA
 AAACGCCAACATTTTGATACTCATTGCAGGGTGTCACTCTTCCATAGTCAGGGCATTGGA
 GAGGAATGATTTCTTTGACGCTGGCATCACCAAGACCCAGCTGTTTCTCAGCGTTACGA
 CGCCGTGCTGTTTGCCTTGTCAAGGAAGGTATAGGCTCCTCTGAGTTAAGCATCGATGA
 ATCCGAGACAGTGATACGGGAAACCTACTCAGAAAACAGACAAGAATGACAATTCAAGATA
 TAAAATGAGCAGCAGTTTTCTAGGAAGCCAAAAAATGTAAGTCCAGGCTTCATCAAGAT
 CCAACAGCCTGTAGAAGAGGAGTCGGAGTTGGATTGAGGCTGGAATCAGAACAAGAGGC
 TGGGCTGGGTCTGGACCTAGACCTGGATCGGGAGCTGGAGCCTGAAATGGAGCCCAAGGC
 TGAGACCGAGACCAAGACCCAGACCGAGATGGAGCCCCAGCCTGAGACTGAGCCTGAGAT
 GGAGCCCAACCCCAATCTAGGCCAAGAGCTCACACTTTTCTCAGCAGCGTTACTGGCC
 TATGTATCATCCGTCTATGGCTTCCACCCAGTCTCAGACTCAGACTCGGACATGGTCAGT
 GGAGAGGAGACGCCATCCTATGGATTCTACTCACCAGAGGGCAACAGCAATGAAGATGT
 CTAGGAGATGAACTAGAAATAAGGGGTGAGATAATGCTGGCAAATCCTCCTACCCAAAAA
 GGGGTCAATTGTCCAGAGACCTAGACTGGATACGAACTAGCAGTACTTCTTCTGACTG

FIGURE 1 (CONT'D)

TGACTCCTACTACCTGCCAGCCTTCTTCCTTGCTCTGCGCTGGGATCATACTCCCAAATC
ACATTACTAAATGCCAACAATTATCTCTGAATTCCTATCCAGGCTCCCCTCATTTTACC
TTCAGCATATATTCTAGTCATGAATTTCTTCTTACACACCCACATCTCTGGGCTTTG
TGCCAGACCATCTCTAACTTAATCCTCTCATCCCTGTTCCCCTTTCTCAAAGAGATGAA
GCTCAAATAAAATGTATAACTCT

Gene 506. >ENST00000244759 cDNA sequence

ATGTACCGACCGCGAGCCCGGGCGGCTCCCGAGGGCAGGGTCCGGGGCTGCGCGGTGCC
AGCACCGTGCTCCTGCTGCTCGCCTACCTGGCTTACCTGGCGCTGGGCACCGCGTGTTT
TGGACGCTGGAGGGCCGCGCGGCGCAGGACTCCAGCCGCGAGCTTCAGCGCGACAAGTGG
GAGCTGTTGCAGAACTTCACGTGTCTGGACCGCCCGGCGCTGGACTCGCTGATCCGGGAT
GTCGTCCAAGCATACAAAAACGGAGCCAGCCTCCTCAGCAACACCACAGCATGGGGCGC
TGGGAGCTCGTGGGCTCCTTCTTCTTTTCTGTGTCCACCATCACCACATTGGCTATGGC
AACCTGAGCCCCAACACGATGGCTGCCCCGCTCTTCTGCATCTTCTTTGCCCTTGTGGG
ATCCCACTCAACCTCGTGGTGCTCAACCGACTGGGGCATCTCATGCAGCAGGGAGTAAAC
CACTGGGCCAGCAGGCTGGGGGGCACCTGGCAGGATCCTGACAAGGCGCGGTGGCTGGCG
GGCTCTGGCGCCCTCCTCTCGGGCCTCCTGCTCTTCTGCTGCTGCCACCGCTGCTCTTC
TCCCACATGGAGGGCTGGAGCTACACAGAGGGCTTCTACTTCGCCTTCATCACCTCAGC
ACCGTGGGCTTCGGCGACTACGTGATTGGAATGAACCCCTCCAGAGGTACCACTGTGG
TACAAGAACATGGTGTCCCTGTGGATCCTCTTTGGGATGGCATGGCTGGCCTTGATCATC
AAACTCATCTCTCCCAGCTGGAGACGCCAGGGAGGGTATGTTCTGCTGCCACCACAGC
TCTAAGGAAGACTTCAAGTCCCAAAGCTGGAGACAGGGACCTGACCGGGAGCCAGAGTCC
CACTCCCCACAGCAAGGATGCTATCCAGAGGGACCATGGGAATCATACAGCATCTGGAA
CCTTCTGCTCACGCTGCAGGCTGTGGCAAGGACAGCTAG

Gene 507. >ENST00000211196 cDNA sequence

ATGCCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCCTGCTGCTGGCC
TATGTCTGCTACCTGCTGCTCGGTGCCACTATCTTCCAGCTGCTAGAGAGGCAGGCGGAG
GCTCAGTCCAGGGACAGTTTTCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGC
CTGGACCACTGGGCCATGGAGCAGTTTGTGCAGGTATCATGGAAGCCTGGGTGAAAGGT
GTGAACCCCAAAGGCAACTCTACCAACCCCAAGCAACTGGGACTTTGGCAGCAGTTTCTTC
TTTGCAGGCACAGTCGTCACTACCATAGGATATGGGAACCTGGCACCCAGCACAGAGGCA
GGTCAGGTCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATCTTCCTC
AACCACCTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGT
CCCAGGCGCTCCCAGGTACTGCAAGTCTTGGGCCTGGCTCTGTTCTGACCCTGGGGACG
CTGGTCATTCTCATCTTCCCACCCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGC
GAGGGCTTCTACTTTGCTTTTCATCACTCTCAGCACCATTGGCTTTGGGGACTATGTTGTT
GGCACAGACCCCAAGCAAGCATTATATCTCAGTGTATCGGAGCCTGGCAGCCATCTGGATC
CTCCTGGGCCTGGCGTGGCTGGCGCTGATCCTCCCACTGGGCCCCCTGCTTCTGCACAGA
TGCTGCCAGCTCTGGCTGCTCAGTCTGAGGCAAGGCTGTGGAGCCAAGGCGGCTCCAGGC
AGGAGACCCAGGAGAGGCTCTACAGCAGCAAGAGGAGTCCAAGTCAACCCCAAGGACTTC
CCCATATCCAAGAAAGGACTGGGAAGCTGA

Gene 508. >ENST00000248594 cDNA sequence

GGGGAGAGGCGGCTGCGGCTGCGGCTGCGGCTGCTGGCGGGGGGTGGGGGGGAGGAGGAA
CCGGGAAGGGGGGGCAGGGCGAGCGGAGAGCTAGCTGTGTTCTTGAGGCGGCGCCGCCG
CTAGGGCGGTGGGGAGGAGGAGGGAGCCGCGGGGCTTGGCGGGGTGGGAGGGAGGGACG
TGCTGGGGGAACGAGCTGGGGAAGACGGAGCGGGCTCTGTGCCGGGCGGGCGGGCGGCGG
GGGGGCCAGCGACCGCAGCCGGGGGGACGCGGGAGGATGGAGCAAGTGGAGATCCTGAGG
AAATTATCCAGAGGGTCCAGGCCATGAAGAGTCTGACCACAATGGGGAGGACAACTTC
GCCGGGACTTCATGCGGTTAAGAAGATTGTCTACCAAATATAGAACAGAAAAGATATAT
CCCACAGCCACTGGAGAAAAAGAAGAAATGTTAAAAAGAACAGATACAAGGACATACTG
CCATTTGATCACAGCCGAGTTAAATTGACATTAAAGACTCCTTCACAAGATTTCAGACTAT
ATCAATGCAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGA
CCTTTAGCAAATACAGTAATAGATTTTGGAGGATGATATGGGAGTATAATGTTGTGATC
ATTGTAATGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAAATGTGAGCGCTATTGGCCT
TTGTATGGAGAAGACCCCATACGTTTGACCATTTTAAATTTCTTGTGAGGATGAACAA

FIGURE 1 (CONT'D)

GCAAGAACAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGG
 CTGTATCAGTTTCATTATGTGAAGTGGCCAGACCATGATGTTCTTCATCATTTGATTCT
 ATTCTGGACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTCTATTTGT
 ATTCATTGCAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTGCCATAGATTATACGTGG
 AATTTACTAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAATACAAGAA
 ATGAGAACACAAAGGCATTCTGCAGTACAAACAAAGGAGCAATATGAACTTGTTCATAGA
 GCTATTGCCCACTGTTTGAAAAACAGCTACAACTATATGAAATTGATGGAGCTCAGAAA
 ATTGCTGATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAGCCTGAA
 AAACAAGATTCTCCTCCTCCAAAACCAAGGACCCGAGTTGCCTTGTTGAAGGGGAT
 GCTAAAGAAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCCACCCATCTTGACACCT
 TCTCCCCCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCAT
 CCAAAGCCAGTGTTCATATGGTTTCATCAGAACCAATTGAGCAGACCTCAACAGAAAC
 TATAGTAAATCAACAGAACTTCAGGGAAAAATGAATCAACAATTGAACAGATAGATAAA
 AAATTGGAACGAAATTTAAGTTTTGAGATTAAGAAGGTCCCTCTCAAGAGGGACCAAAA
 AGTTTTGATGGGAACACACTTTTTGAATAGGGGACATGCAATTAATAATCTGCTTCA
 CCTTGTATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTGAGATCTAAATGTCGGT
 GATACTTCCCAGAATTCTTGTGTGGACTGCAGTGTAAACACAATCAACAAAGTTTCAGTT
 ACTCCACCAGAAGAATCCAGAATTGAGACACACCTCCAAGGCCAGACCGCTTGCTCTT
 GATGAGAAAGGACATGTAACGTGGTCATTTGATGACCTGAAAATGCCATACCCATACCT
 GATTTATCTGAAGGCAATTCCTCAGATATCAACTATCAAAGTGGAAAAGTGTGAGTTTA
 ACACCAAGTCTTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCA
 CCACTCTTCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCA
 GATGAAAGAACTCTGATGGTGTGTGACCCAGAATAAACTAATATTTCAACAGCAAGT
 GCCACAGTTTCTGCTGCCACTAGTACTGAAAGCATTTCTACTAGGAAAGTATTGCCAATG
 TCCATTGCTAGACATAATATAGCAGGAACAACACATTGAGGTGCTGAAAAGATGTTGAT
 GTTAGTGAAGATTACCTCCTCCCCTACCTGAAAGAACTCCTGAATCGTTTGTGTTAGCA
 AGTGAACATAATACACCTGTAAGATCGGAATGGAGTGAAGTTCAAAGTCAGGAACGATCT
 GAACAAAAAAGTCTGAAGGCTTGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCG
 GGAGGTATTCACTATGAAATGTGCATAGAATGTCCACCTACTTTTCAAGTGAAGAGAGAA
 CAAATATCAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGATGTGAAAAA
 CCCAAAGGACCAAGAGATCCACCTTCAGAATGGACATGATTGAGGGAGCTAGAAGACACT
 TTAAGTTATACTGGAATAATCAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTT
 AATATGTGGGACTAACAGCAGTGTAGATTGTTACCTTAATATTTTTTGCTGGGACCATCT
 ACCTGCCTTATACTACACTTAGGAAAAAGTATTACATATGGTTTTATTTTGAACTTCAAG
 TATTATTGCCTTAATGTCTCTTAACCTGTTACACGCTGCTTGTAGACATGTTAATATAG
 TAATACCTTTATGATATATTGAGTTTAAGGACTACTCTTTTTCTGTTTTATCATGTATGC
 ATTATTTTGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAAT
 ATTATTAACAGAAGATGTAAGAAATTTCTGCATGGTCTAAATCTTTGTGTACTTTATTTG
 TAAATTATTTGCCCTGGAGTTTTAGAAAATAGTTTCTGAATTTTAACTTGCTGGATTCA
 TGCAGCCAGCTTTGCAGGTATCAGAGATCAAAGATTGTAATAATAATTTTGTAATTGT
 AAGCAAAAAGTTATTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTCTGTT
 TTCATCTAGTCAGAGATTGAGTAAGTGCCTTGGAACAATATTGAATTCTCTTAGCTTGTG
 TGTGTTTCTTTAATATTTGAACTCAAGTGGGATTAGAAGACTATCAAAATACATGTATGT
 TTCAGGATATTTGACCTGTCAATAAAAAAAACAAACAGTTTACAGTGCC

Gene 509. >ENST00000320648 cDNA sequence

ATGGCGTCTATATCGATGAACACGACTGTGAGCCGTTGGACCCTCAAGAGACTCGAACC
 AACATGGTGCTGGAGCTCGTAAGGTCACTTTTGAATAGGATGGACTTTGAAGACTTGGGG
 TTGGTAGTAGATTGGGACCACCACTGCCTCCACCGCTGCCAAGATTGTGGTTGAGAAC
 CTCTCCAGGACAGTCATCGCTCTCAAGGCTGAGCTCAAGTGCCCCGTGTATCTTTTGAA
 TCTGAGGAGGAGACTGCCATTGAGATGTCCCAACACCTTTTTCAATCCAGTTGCATTCTG
 CCTGGCTAAGCAAGACAAATTCCTGTCCCTTGTGCCGCTGAGCTGCCCACTGATGAC
 TACACTTATGAGGAACACAGACGAGATAAGGCTCGAAAACAGCAGCAGCAGCAGAACCGA
 CTGGAGAACCTCCATGGAGCCATGTACACGTGA

Gene 510. >ENST00000327788 cDNA sequence

FIGURE 1 (CONT'D)

AGCAGCAGGGAGCTCCAAGCCGCGGAGTATTTGGAAAAGCATCAGATCAAGGAGGTGGTT
AGCTACCTCACCAGCGCCCTCCTTTTCTTTTCGGCCGGAAAAACAAAAGAATATTTAATA
TCTCTATTGGAACGACTGAGAATTGCAAAAGTAACAGGCGTGGCGTTTCCTTTCTTTATG
GATAACTCTAACATTGTGGCTATGTTTGAGATGATGGACTCCTCAGGCAGAGGCACCATA
TCATTTGTGCAGTATAAAGAAGCCCTAAAAACCTGGGTCTATGCACTGAAGATGAAGAT
TTACAAGATGATGGACATAAAATAACTTTGGATAAATTCAAGGAGGAAGTGAACAAGAGG
ATGAAGGAAATATGGTCAGCATTTTAA

Gene 511. >ENST00000257700 cDNA sequence

GAAACCAAGTGAGACATCGAGAGGAAGTCGCTGTGGCACTCAGTCCTACGGCCTCCGAGGC
TGGGTAGTGAGTGTGTGCTGGCCTTAGCCAGACTCCACAGGCCACGCTGGCTGCGAATG
GAGCCGAGGACTCGCGCGGAGGCGAGATGCTACCAGCCGGCGAGATCGGCGCCTCTCCTG
CAGCCCCGTGCTGCTCTGAAAGTGGTGACGAAAGGAAGAACCTCGAGGAGAAAAGTGACA
TAAATGTTACAGTTCTTATTGGAAGTAAACAAGTCAGTGAAGGTACAGATAATGGTGATC
TCCCTTCTTATGTGTCTGCATTATAGAAAAGGAAGTTGGAATGACCTTAAATCTTTAA
AGAACTTGATAAACTCATAGAACAGAGGACAGTAAGTAAATGCAGTTAGAAGAACAGG
TACTTACAATTTTCATCAGAAATTCCTAAAAGAATTCGAAGTGCCTTAAAAAATGCAGAAG
AATCAAAGCAATTTCTTAATCAGTTTCTGGAGCAGGAACTCATCTCTTCAGCGCCATTA
ACAGCCATTTGCTGACTGCGCAACCTTGGATGGACGATCTTGGAACCATGATTAGCCAGA
TTGAAGAGATCGAACGTATCTTGCTTACCTTAAATGGATTTCAAAATTGAAGAACTAA
GTGATAACATTAGCAATATCTGATGACCAATAATGTACCGGAGGCAGCCTCCACTCTAG
TGTCTATGGCAGAACTTGACATTAAACTTCAGGAATCATCTTGTAATCATCTTCTTGTT
TCATGAGAGCCACAGTTAAATTCCTGGCATAAAATTCGAAGGACAAGCTTACAAGTGATT
TTGAGGAAATTTTAGCACAGCTTCATTGGCCATTATCGCACCCCTCAATCACAACTG
TTGGCTTAAGTCGACCTGCCAGTGCCCCGGAGATATACAGTTACCTGGAGACACTGTTTT
GTCAGCTTTTGAAACTACAAACCTCAGATGAATTACTTACTGAGCCAAAGCAACTCCCAG
AAAAATACTCTCTTCTGCTCCCTTCTGTATCTGCCCATCCAGGTTATGCTGACTC
CTCTTCAGAAGAGGTTTCAGGTATCACTTCAGAGGGAACCGGCAGACTAATGTGTTAAGCA
AGCCAGAATGGTACTTGGCTCAAGTACTTATGTGGATTGGAAACCATACTGAATTTCTGG
ATGAGAAGATTAGCCAAATATTAGACAAAGTAGGCTCTTTGGTAAACGCAAGGCTTGAAT
TTTCTCGGGGCTTATGATGCTGGTTCTTGAGAAGTTAGCCACTGATATTCCTTGTCTGC
TATATGATGACAATCTCTTCTGTCAATTTGGTGGATGAAGTACTCTTGTTTGAAAGGGAGC
TACACAGTGTTTCATGGCTATCCTGGCACTTTTGTAGTTGTATGCATATTCTATCAGAGG
AAACCTGTTTTTCAGAGATGGTTGACGGTGGAGAGAAAATTTGCTCTTCAAAAAATGGACT
CAATGCTTTTCTCAGAAGCTGCCTGGGTATCGCAATATAAGGATATCACTGACGTGGATG
AAATGAAAGTTCCAGATTGTGCAGAACTTTTATGACTCTACTCTTGGTTATAACTGACA
GGTATAAAAAATCTTCCACAGCTTCCCGAAAGCTTCAGTTCTTGAGTTACAGAAGGACT
TAGTAGATGATTTTAGGATACGATTAAACACAAGTGATGAAAGAAGAGACTAGAGCTTCCC
TTGGCTTTTCGATACTGTGCAATTTCTTAATGCTGTGAACTACATCTCAACAGTACTAGCAG
ATTGGGCTGACAATGTTTTCTTTCTCAACTTCAACAGGCTGCACTGGAGGTGTTTGCAG
AGAATAATACTCTGAGTAAATTGCAGCTAGGACAGCTAGCCTCTATGGAGAGCTCTGTCT
TTGATGACATGATTAACCTCTTAGAACGTTTAAAGCATGATATGTTGACCCGTCAAGTAG
ACCACGTTTTTTAGAGAAGTTAAAGATGCTGCAAAATTTGATAAAAAAGAAAGATGGTTGT
CCTTGCCATCTCAGTCAGAGCAGGCAGTGATGTCCCTGTCCAGTTTCGGCTTGCCCGTTGC
TGCTGACGTTACGAGACCATTTACTTCAGTTGGAGCAGCAGCTTTGTTTCTCCTTATTTA
AAATTTTCTGGCAAATGCTTGTAGAGAAGCTGGATGTATACATCTACCAAGAAATAATTC
TTGCTAATCACTTCAATGAAGGAGGAGCAGCCAGCTGCAGTTTGATATGACTCGGAATC
TTTTCCCTTTGTTTTCTCACTATTGCAAGAGACCAGAAAATTTATTTTAAACATATAAAAG
AAGCCTGTATTGTTTTGAATTTGAACGTGCGTTCTGCACTACTGCTGAAAGATGTACTGC
AGTCAGCTTCAGGCGAGCTTCTGCCACAGCAGCATTAAATGAAGTTGGAATTTACAAAC
TGGCTCAACAAGATGTTGAGATTCTACTTAATTTGAGGACAAATTTGGCCTAATACTGGAA
AATAATGTCTTTAGAAAAAGGTTTCTTTGGTTTTTTGTTTCTAAGAAAGAGGAAGCCAAT
TGGATTTCAAGTTATATGATGAAATTTCTGAATTAATGAAACTGGAAAACTTTATAGAATT
ACTTATTATCTTGGATTTATGGTGTTATTAATGCTGACCATATTTCTTTCATCCTCTT
GTTCTTAAGGAAACAAAAACAGAAAACGAAACAATGAAACTCAATTCTATTTACAAGTA

FIGURE 1 (CONT'D)

TAAATGCTGAGTATGTCTGTTGAAGACGAGCAGAGATATTAAATTATAACCAACTTTCAA
TTTCCTGTGCTAATTAAGGGAAATTCTGTTGTGGATAATCAAACATAGCCAATAAATTTT
TTTAAAACTC

Gene 512. >ENST00000332220 cDNA sequence

GACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACA
TCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTA
AAATGGTTCAATGTAAGGAACGGATATGGTTTTCATCAACAGGAATGACACCAAGGAAGAT
GTATTTGTACACCAGACTGCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGA
GATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCAGGAGGCAGCAAAT
GTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCAT
TATAGACGCTATCCACGTATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAAC
AGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAA
TGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGT
CGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGTGACAACCAG
GGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGA
TTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAT
CAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAAT
TACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCC
AATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAA

Gene 513. >ENST00000310149 cDNA sequence

CCGGGCGGCCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAG
GTTTTGGGAACAGTAAATGGTTCAATGTAAGGAACGGATATGGTTTTCATCAACAGGAAT
GACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCAGGAAGTAC
CTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGT
GCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCA
GCAGATCGTAACCATTATAGACGCTATCCACGTATAGGGGTCCTCCACGCAATTACCAG
CAAAATTACCAGAACAGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGAA
GGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGCGG
AGACCCTATGGGTGTGACACACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAG
GGTGTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGTGTATCGGGGAT
ATAGACCACGATTCCGCAGGGGCCCTCCTTGCCAGACAGCCTAGAGAGTACGGCAATGAA
GAAGATAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGC
AATTCAATTACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACA
AATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCT
GAGTAA

Gene 514. >ENST00000329090 cDNA sequence

CAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTAAATGAATGTAAGG
AACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACT
GCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAG
TTTGATGTTGTTGAAGGAGAAGAGGGTGCAGGAGGCAGCAAATGTTACAGATCCTGGTGGT
GTTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGT
CATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGAAAAG
ACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGG
CAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGTGACACACAGTATTCCAGC
CCTCCTGTGCAGGGAGAAGTGATGGAGGGTGTGACAACCAGGGTGCAGGAGAACAAGGT
AGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCT
TGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAATCAAGGAGATGAGACCCAG
GGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCCA
GAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTGAGAAT
TCGTCTGCTCCCGAGGCTGAGCAGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATC
ATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCAGCAATAA

Gene 515. >ENST00000274867 cDNA sequence

AGGAAAGGGGTCCCGGACTCTGGGGCTCTCAGCACCTGCGGTGCGAAACCAACCTCATG
CCCTGACTTTACCAGGCGTCGGGACTCTGACTTAACCGGGGAATGAGGGACTTGGTCTGG

FIGURE 1 (CONT'D)

CGGCAGATCACAATGAGGACCTAGGGCATCTGTCTGCTGACGCCCCCTGGCCTGCAGTGA
 CCATGGCCCCCGCAAGAGGAGCCACCATGGCCTGGGCTTCCTGTGCTGCTTCGGGGGCA
 GTGACATCCCCGAAATCAACCTCCGGGACAACCACCTCTGCAGTTCATGGAGTTCTCCA
 GCCCCATCCCGAACGCAGAGGAGCTCAACATCCGCTTTGCAGAGCTGGTGGATGAATTGG
 ATCTCACTGACAAAAACCGAGAGGCTATGTTTGCAGTCCCCCTGAGAAGAAATGGCAGA
 TCTACTGCAGCAAGAAGAAGGAGCAGGAGGACCCCAACAAGCTGGCAACCAGCTGGCCTG
 ACTATTACATCGACCGCATCAATTCCATGGCTGCGATGCAGAGTCTGTACGCGTTTGATG
 AGGAGGAGACGGAGATGAGGAACCAAGTCGTGGAAGACCTGAAGACAGCCCTCCGGACAC
 AGCCTATGAGGTTTGTGACCCGCTTCATTGAGCTGGAGGGCTTGACCTGTCTGCTAAATT
 TCCTCCGGAGCATGGACCACGCCACCTGTGAGAGCCGCATCCACACCTCACTCATTGGCT
 GCATCAAAGCATTGATGAACAACCTCCCAGGGGCGGGCACATGTGCTGGCACAGCCTGAGG
 CCATTAGTACCATAGCCCAGAGCCTACGCACAGAGAACAGCAAGACCAAGGTGGCTGTGC
 TGGAGATCCTGGGTGCTGTGTGCCTCGTGCCTGGTGGCCACAAGAAGGTGCTGCAGGCCA
 TGCTGCACTACCAGGTGTATGCAGCAGAGCGAACCCGCTTCAGACCTGCTGAACGAGC
 TAGACCGAAGTCTGGGCCGGTACCGGGATGAAGTGAATCTGAAAACAGCCATCATGTCCT
 TCATCAATGCTGTCTCAATGCTGGAGCTGGAGAGGATAATCTGGAGTTCCGCCTACATC
 TACGGTATGAATTCCTGATGCTGGGTATACAGCCTGTGATTGACAAGCTCCGGCAACATG
 AAAATGCCATCCTGGACAAACATTTAGACTTCTTCGAGATGGTGCAGGAATGAGGATGACC
 TGGAGCTAGCCAGGAGGTTTGCATGGTCCACATCGACACCAAGAGTGCTTCCAGATGT
 TTGAGTTGATCCACAAGAAGCTGAAGTACACGGAGGCCTACCCCTGCCTGCTCTCTGTGC
 TGCACCACTGCCTGCAGATGCCCTACAAACGGAACGGTGGCTACTTCCAGCAGTGGCAGC
 TCCTGGACCGCATCCTCCAGCAGATTGTCTCCAGGATGAGCGGGGTGTGGACCCTGACC
 TGGCTCCCTTGGAGAACTTCAATGTCAAGAACATCGTCAACATGCTCATCAACGAGAATG
 AAGTGAAACAGTGGCGAGACCAGGCAGAGAAGTTCGGGAAAGAACACATGGAGCTTGTGA
 GCCGTCTGGAGAGGAAGGAGCGGGAATGCGAGACAAAGACATTGGAGAAGGAAGAGATGA
 TGCGGACGCTGAACAAAATGAAGGACAAGCTGGCCCCGGGAGTCCCAGGAGCTGCGCCAGG
 CTCGGGGACAAGTGGCAGAGCTGGTAGCCAGCTCAGTGAACTCTCAACAGGCCCTGTAT
 CTTCCCCACCACCCCTGGGGGCCCCACTCACCTTGTCTTCTCAATGACAACCAATGACC
 TGCCTCCACCCCTCCTCCTCTGCCCTTTGCCCTGTTGTCCCCCTCCCCACCACCCCTC
 TTCTCCCGGGGGACCCCCGACTCCCCCAGGTGCCCCACCTTGCCCTCGGCATGGGCCTGC
 CCCTCCCTCAGGACCCCTACCCAGCAGTGACGTCCCACTCAGGAAAAAGCGTGTCCCCC
 AGCCTTCTCACCCACTGAAGTCCTTCAACTGGGTGAAGCTGAATGAGGAGCGTGTCCCTG
 GCACCGTATGGAATGAGATTGATGACATGCAGGTATTTTCGGATCCTGGACCTAGAGGATT
 TTGAAAAGATGTTTTAGCCCTACCAGAGGCACCAGAAAGAGCTGGGCTCCACTGAAGACA
 TCTACCTGGCTTCCCGCAAGGTCAAAGAGCTGTCCGTTCATTGATGGCCGGAGGGCCAAA
 ACTGCATCATCCTTCTTTTCCAAGTTGAAGCTTTCTAACGAGGAGATCCGGCAGGCCATCT
 TGAAGATGGATGAGCAGGAGGACCTTGCTAAGGACATGCTGGAGCAGCTCCTCAAGTTCA
 TCCCAGAGAAGAGTGACATTGACCTCCTGGAGGAGCACAAGCATGAAATTGAGCGGATGG
 CCCGTGCTGACCGCTTCTCTATGAAATGAGCAGGATTGACCACTACCAGCAGCGACTGC
 AAGCCCTCTTCTTCAAGAAGAAATTCCAGGAGCGGTGGCTGAGGCAAAGCCCAAAGTGG
 AAGCCATCCTGTTGGCCTCCCGGGAGCTGGTCCGAGCAAGCGTCTTAGACAGATGCTAG
 AGGTTCATCCTAGCCATAGGCAACTTCATGAACAAAGGGCAGCGTGGGGGCGCCTACGGGT
 TCCGGGTGGCCAGCCTCAACAAGATCGCTGACACCAAGTCCAGCATCGACAGAAACATCT
 CTCTGCTCCATTACCTGATCATGATCCTGGAGAAGCATTTTCTGATATTCTAAACATGC
 CTTCAGAGCTGCAACATCTTCCAGAAGCTGCCAAAGTCAACCTAGCAGAACTGGAGAAGG
 AGGTGGGCAACCTCAGGAGGGGCTGAGAGCGGTGGAGGTGGAGCTGGAGTATCAGAGGC
 GCCAGGTACGGGAGCCAGTGACAAGTTTGTCCCTGTGATGAGCGACTTCATCACGGTGT
 CCAGCTTCAGCTTCTCCGAGCTGGAGGACCAGCTAAATGAGGCCAGGGACAAGTTTCGCCA
 AGGCCTTGATGCACTTCGGGGAGCATGACAGCAAGATGCAGCCAGACGAATTCTTTGGCA
 TCTTTGATACCTTCTTGACGGCCTTCTCAGAGGCCCGGCAGGATCTAGAGGCCATGAGGA
 GGAGGAAGGAGGAGGAGGAGCGGGCGCGCATGGAAGCCATGCTGAAGGAGCAGAGGG
 AACGTGAGCGGTGGCAGCGGCAGCGGAAGGTCTGGCTGCAGGCAGCTCGCTGGAGGAGG
 GAGGAGAGTTGATGACCTGGTGTGCGCCCTGCGCTCTGGGGAGGTCTTCGACAAGGACT
 TATGCAAGCTCAAGCGCAGCCGCAAGCGATCAGGGAGCCAGGCCCTGGAAGTTACCCGGG

FIGURE 1 (CONT'D)

AGCGGGCAATAAACCGGCTAAATTATTGACCTGGGGAACTAGCCACACAGGAGGCCGGGA
GACAGGGACTGGTGAGAATGGGGCTGAGTGGAGGAGGTGGTGATATTTAAACCATTGGT
GCTTGGTTTtagagccttgggctgggtcctgggatgggggctgtgtgtggctggaccagg
TGTCTCCCCACGCTTACCTTAAGGGGCTCCTCTTATCTCCCTTCACATGATTCTTCTG
TGCCCTGGCCCCAGGTATTATTCTGAGGCTGCCTTGGATGGCCTCAGGCCAGGTAACCCC
AGGCTGAAGGGGCCCTGCTCCCCATCCCCTACCATGGGCACCCATGTGCTGGCACAGAAC
AGTTCAGATCTAGACTGGAGAGGTCCACAGCCTTGTCCAGAGTTCTGTGTAGCACGGG
GAGCAATGATGGAGGGAGCCCCTGAGAGGGAATCTGGTGGGGAATCCAGACTCCCTTCT
CTCAAGGGGAGGCTCAACAGAACATTGACCTGGGGGCAAACTTCTCTTGAATGGGAAC
AGAGGAGGCATTATATATTCTAGTTAGATCAGCTCTGGTAGGTTCCAGAGAACAGTCAAT
GTTGGAAGGATGATGCAGGGACCAAGCCATCAGGACAGAGTAGCAGTGTCTGTTTCCA
TGTCAAGTCTCTGGCCTCTCCCTGCATGTCTTAAGTATCTTCCCTTCTTCTCTAC
CCTCACCTCCATCCTGTCTACTAATCCACAGTCTTAGAAGACTCACCTTGGGTTTCCACA
GCTATGGCTCACTACCAGGTGCTTGATGAATCTGGCGAGGGGCTCAAGACAGACCTCATG
CATCACACACCTCATGCCTTTTGGGCATCTCCCATGTCCCATCTCCTGGACACCTGGC
CATTGTTGTGAAGCCAGACAGTGACCTCAAATGTTGCCTTGGAGTCCCCTACAGCCCCTC
AGCAGAGGGCAGCACTTGAATGCTTAGCTCCATCCCATAGTTCTCTACTTCATATAAATT
GCTCAGGCCCTCCACCCCTTCTCTAACACTAGCTTCAAGGCAGAAGCCACAGCAGCCTC
TGTCCAGCCTGCAGGTGGCCACTTGGAAACCATGTGTCCACTGGCGTTGGGGAGTTGGTTC
CTGAGAGGTCTGAGGGCCAGAGCTGCCCTCTACATTAAACATGCTGTCTCTAAGGGTGGCC
CCTCCTCTCAGGCGTTGAGATGGTGCGAACAGCAGAGCAGGCAAGGGAAACTGGGGAGAT
GGGGATGGAGGAGGAAGGCTGATATCCTCTGGGGAGCACATCACCTGAAGGTGCCAAGGA
GGAAGGCTGAGAGGGGGGCCACCCATTTCTGGTACCCAATTTGGTTCTTCAGCCCAACT
TGCAAGGGGTTCTTCTGGTCTCCCATCCACTGCCACCTTCCATTTTGTCCATCTCATG
CTGGCCTTGGTGGATGGGATGGCTGTATCTAGACAAAATTTTTCTAAAACTCCATCAAGG
CTCTTATTCAATACCACGTTCCGAGTTGGCCTTTTCTCTTCTTGGAGACTGGCCCTGCCT
AACCTCTACCATCAATGAGCTCTTGGCCCTTCTGCCCTTCCCTGTGTTTCTCACTTTCCA
ACCTAATCCCTGGCTCAGGGTTATTGCCAGTGGAGACTGGTGAGCTGGGCCTACTCTCAG
CTGCCTATCTTCTGCCTTTCACTTGCATCCAACCTCCTGGGGCTGGGACCGTAGTAGCTGC
GGGGGGGAAGAAACACAGGGTCGGTGAGCCCAGCATGTGCGTTGGTTTGGGGGGCGGGC
GGTGTGTGTGTGTTCTGGTGGGAGGGATCTGAGCAAGTGCAAGCCTGGCTGACACAGGTG
TGAAGAGGCCATCCTGGAACCCAGGTGAGGGCAAGATGAAGGCTTCCAGGCAGAACAGCT
GCAGAGAGTTTGGCTATATGCATCTGCAGCCCCAAGAGCTCCCACTGCAAGACAAGTGTT
GGGGAAGATGGGAGGTTGTGGGTGAGGCCTCTAAAGGTCTCTCCCAAAGTACCAGGCT
GATGTCAACCTAACCCCTCAGGGGCAGGGAACAGGGGAGGGCTCCACAAGCGTGTCTGG
CATTCCCACCCACCATGGAAGACTGGATACGCACCTGGAAACAAAAGGACTATGGAAGCT
GTTCAAGATACATTTGATCTTCAAGAAAGCAGAATTTGGTTCAACTGTTGACAGAGGACA
CAAATACGTTGTTCCAGAGCTCAGCCTTCTCACTCTAAAGAAAGATATTTTTCTATTTA
TTTTCTACATCTGGCCAGTGGCTCTGGTGCTAGATGCCACTGTAGCCAGATCTCCAACAG
TGCCCTTGGACCATGGACTCATACTCAACTGAGTAAGAAGGGGCTGGTGCCAGTCCGGGT
GGCTGAGCTGGTCCTTAATAGGTTGTTTCTTGGTCTTGCTTTCTTCATGCCCTCCCCACT
GCTCCTGCCACCTTTAGATAAGTTTCTCTAGCTAATTTTGTGGCCAATGTAAATTCGTC
ATCAACCTAACAAACACAACCTTCTCAGCAGCATTTCTCCCTGTGATGGAAATAAAGTG
TTTAGGGCAGTGGGAGGAGAAAATTCTCCAGGTGAATGGGGAAGGGTCTGTTCCAGCCTC
TCCCTACTCCCATCCCATTTCCACCAACTGGGGAACTGTGACTATCTATCTCCCCGACT
TCTACCAGGGATGCCTTACGCCAAGGCTGTTCTCACCAGCTGCCTCAGATGACAAATGA
GGCTAATGGACATAATCTACAGTGTCTTTTTCACTTGACCTTTTTTATAAGAATATAT
TGTAATACTAAAAATATTAAATTCATACCATCCCTACCCAGTC

Gene 516. >ENST00000257687 cDNA sequence
GTGCGAGCCCGGCCGCCGGTGAGTCGGCTGGAGCGCATCTGGTCCTCCGCGCGGAAAGCG
CTGCTTTTGCCTGGCCGCCCTAGCCGCTGGCTCATCCAAGTGGCCTTCGCCGCTCTCTTG
CGTCCCAACCAGAGCGCTGGCCACCTCGCCGCCAGCTCACGCCGCGCCCGCTCCCAG
GCTCCGGGTTTTCTTAAATGTTTTCTTGGAGCCTTAAAGATGGAGATGACAGAAATGACT
GGTGTGTGCTGAAACGTGGGGCACTGGTTGTGCGAAGATAATGACAGTGGAGTCCCAGTT

FIGURE 1 (CONT'D)

GAAGAGACAAAAAACAGAAGCTGTCGGAATGCAGTCTAACCAAAGGTCAAGATGGGCTA
CAGAATGACTTTCTGTCCATCAGTGAAGACGTGCCTCGGCCTCCTGACACTGTCAGTACT
GGGAAAGGTGGAAAGAATTCTGAGGCTCAGTTGGAAGATGAGGAAGAAGAGGAGGAAGAT
GGACTTTGAGAGGAGTGCAGAGGAGGAGGAATCAGAGAGTTTTGCAGACATGATGAAGCAT
GGACTCACTGAGGCTGACGTAGGCATCACCAAGTTTGTGAGTTCTCATCAAGGGTTCTCG
GGAATCTTAAAGAAAGATACTCCGACTTCGTTGTTTCATGAAATAGGAAAAGATGGACGG
ATCAGCCATTTGAATGACTTGTCCATTCCAGTGGATGAGGAGGACCCTTCAGAAGACATA
TTTACAGTTTTTGACAGCTGAAGAAAAGCAGCGATTGGAAGAGCTCCAGCTGTTCAAAAAT
AAGGAAACCAAGTGTGGCATTGAGGTTATCGAGGACACCAAAGAGAAAAGAACCATCATC
CATCAGGCTATCAAATCTCTGTTTTCCAGGATTAGAGACAAAAACAGAGGATAGGGAGGGG
AAGAAATACATTGTAGCCTACCACGCAGCTGGGAAAAAGGCTTTGGCAAATCCAAGAAAA
CATTCTTGCCAAAAATCTAGGGGAAGTTACTGCCACTTCGTACTATATAAGGAAAAACAAA
GACACCATGGATGCTATTAATGTACTCTCCAAATACTTAAGAGTCAAGCCAAATATATTTC
TCCTACATGGGAACCAAAGATAAAAGGGCTATAACAGTTCAAGAAATTGCTGTTCTCAA
ATAACTGCACAAAGACTTGCCACCTGAATAAGTGCTTGATGAACTTTAAGCTAGGGAAT
TTCAGCTATCAAAAAAACCCACTGAAATTGGGAGAGCTTCAAGGAAACCACTTCACTGTT
GTTCTCAGAAATATAACAGGAACTGATGACCAAGTACAGCAAGCTATGAACTCTCTCAAG
GAGATTGGATTTATTAATACTATGGAATGCAAAGATTTGGAACCAAGCTGTCCCTACG
TATCAGGTTGGAAGAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTG
AAACCCCGCTCTGGAGCTGAAAAGGGCTACTTGTTAAATGCAGAGAAGAATGGGCAAAG
ACCAAAGACCCAACTGCTGCCCTCAGAAAACCTGTCAAAAGGTGTGTGGAAGGGCAG
CTGCTTCGAGGACTTTCAAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATA
CCCAGAAATAATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATG
GTAAGCAAGAGGATAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAA
GGAGCCACAGCCACCTATATTGAGGAAGATGATGTTAATAATTACTCTATCCATGATGTG
GTAATGCCCTTGCCCTGGTTTTCGATGTTATCTACCCAAAGCATAAAATTCAAGAAGCCTAC
AGGGAAATGCTCACAGCTGACAATCTTGATATTGACAACATGAGACACAAAATTCGAGAT
TATTCCTTGTCAGGGGCTACCGAAAGATCATTATTCGTCCTCAGAATGTTAGCTGGGAA
GTCGTTGCATATGATGATCCCAAAATTCCACTTTTCAACACAGATGTGGACAACCTAGAA
GGGAAGACACCACAGTTTTTTGCTTCTGAAGGCAAATACAGGGCTCTGAAAATGGATTTT
TCTCTACCCCTTCTACTTACGCCACCATGGCCATTTCGAGAAGTGCTAAAAATGGATACC
AGTATCAAGAACCAGACGCAGCTGAATACAACCTGGCTTCGCTGAGCAGTACCTTGTCCA
CAGATTAGAAAACGTACAGGCGCGCACCACCACGCCTAGCTGATTTTTTGTATTTTTTGT
AGAGACGGGGGTTTTGGCCATGTTGCCGAGGCTAACTCCTGGGATTACAGGCATGAGCTGT
GCTGGCCGGGTTTTTTTTTTCTTGATGTAAACGTGTACAGCTGTTTTATTAGTTAAGGTCT
AATTTTTACTCTAGGTGCCTTTTATGTTTCAAGACTCTTTCCACTGGACTGGTATTTGCTC
AAAAATAAATAATGGTAGAGAAGAAAACCTATAAAAAATGGACAAGGCTTTCTTCTATCAGT
AGCGTTTACCCTTTGTCAACAGTGGCTTTGGTATTTCCATGTCTGGCATTGCATAAACTT
CTCTGGTGTGAAAGGATAAATATGCCTTTCTAAAGTTGTATATCAAAATTGTATCAATTT
TTATTTTCTATGATTTCTAGAAAACAAATGTAATAAATATTTTTTAAATCTC

Gene 517. >ENST00000314157 cDNA sequence

GTGCGCCTCCCGTCGCCCAAGATGCCGAAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCT
CTGGCCCCTGCTTTTGTGAAGAAGCAGGAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAG
AAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAGAGACCTCACCTGC
TTTGTGAAATGGCCCCGCTATATCAGGTTGCAATGGCAGAGATCCATACTCTATAAGCAG
CTGAAAGTGCCTCCTGCGATTAAACAGTTTACCCAGGCCCTGGAAGGCCAAACAGCTACT
CAGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCGGAGG
CTGTTGGCCCAGGCAGAGTTGTGGGCAAAGGGGACCTCCCCAAAGAGACCACCTGTCTTT
CGAGCAGGAGTTAACACCATCACCACTTTGTGGATAACAAGAAAGCTCTGCTGGTGGTG
ACTGCACACGACATGGATCCCATTTGAGCTGACTGTTTTCTGCCTGTCTGTGTATATAA
ATGGGAGCCACTTGCTGCATTATCAAGGGGAAGGCAAGACTGGGATGTCTAGTTACAGG
AAGACCTACCACTGTGCACTTCAACAGGTTAACTCAGAAGACAAAGGAGCTTTGGCT
AAGCTGATGGAAGCTATCGGGACCAATTACAATGCCAGATACGATGAGACCCACTGTCAC
TGGGACGGCAATGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCA

FIGURE 1 (CONT'D)

AAGGCTAAAGAACTTGCCACTAAACTGGGTAA

Gene 518. >ENST00000312917 cDNA sequence

ATGGTGCAGATGATGAGGCAGTTTCTGTACCGGGTCTGCCCCGAGGACTCCTACAAGGTC
 ACCACGGGGAAGCTCCATGTGAGCCTCACCCGCTTAACGGACGGGGAGAATGTGGTGGTT
 TCAGAGTTCACGTCCAAGGAGGAGCTCATTGAGGCAGCCCTATACTGCAGCTGCTTCGTC
 CCGGTGTACTGTGGCCTCATCCCCCGACTTACCGCGGTGTGAGGTACATCGATGGGGGC
 TTCACGGGCATGCAGCCCTGTGCCTTCTGGACCGACGCCATCACCATCTCCACCTTCAGT
 GGGCAGCAGGACATCTGTCCCCGGGACTGCCCGGCCATCTTCCACGACTTCCGCATGTTT
 AACTGCTCCTTCCAGTTCTCCCTGGGAGAACATCGCCAGGATGACCCACGCATTGTTCCCC
 CCGGACCTGGTGATCCTGCACGATTACTACTACCGAGGGTACGAGGATGCAGTTTTGTAC
 TTGAGGCGGCTGAATGCTGTTTATCTTAATTCTTCTCCAAGAGAGTGATTTTCCCCCGG
 GTGGAAGTGTAATGCGCAGATAGAACTCGCCCTTGGCAATGAGTGCCCTGAACGCAGTCAA
 CCAAGCCTTCGAGCACGGCAGGCCAGTCTGGAAGGAGCCACACAACCTCACAAGGAGTGG
 GTTCCCAAAGGGGATGGAAGGGGCAGCCATGGTCCGCTGTGTCCCAACCTGTGCAGACA
 CTTGAATTCACATGCGAGTCACCTGTTTTCAGCACCAAGTCTCTCCACTTGAGCAGCCACCT
 GCACAGCCACTGGCCTCTTCAACTCCACTTTCTCTAAGTGGCATGCCACCTGTATCATT
 CCAGCTGTGCACAAGCCACCCAGCTCCACACCTGGTTTCATCACTGCCACCCACCACCT
 GGACTGTACCTCTGTACCTCAGCAGCAGGTACAACCGTCTGGATCACCAGCCAGATCC
 CTACACTCTCAGGCACCCACTTCAACCCAGGCCATCCCTGGGGCCTTCAACTGTGGGGGCA
 CCTCAAACACTGCCCCGAAGTTCTCTTTTCAGCCTTCCCTGCTCAGCCACCTGTGGAGGAA
 CTAGGCCAAGAACAGCCCCAAGCTGTAGCTCTTCTTGTCTCTTCAAAACCAAAAAGCGCC
 GTGCCTCTGGTTTCATGTGAAGGAAACCGTCAGCAAGCCTTATGTAACGGAGAGCCCTGCT
 GAAGACTCAAACCTGGGTGAATAAGGTCTTCAAGAAGAACAAGCAAAAGACAAGTGGCACC
 AGAAAAGGCTTCCCAAGACATTCGGGATCCAAAAACCAAGCAGCAAGTGCAGTGAGCA
 TGTCTAATGTTCTTAAATCCCACGGAGAGGAGCAGCTTTGGGAACTGTGTTTCAAGAGAGA
 TTCCGAGGAATAGAGGAGAGTGTAAAGGAGTAGGGGGTGCAGTGGGAGATTGGGCTTTGG
 AACAGACACATCCGACATAAAATTCCTGCTCTGCCACAGCTCCACTCAGGGATCATGGTT
 GGGACACTTGCTCTCCCTGAGCCTCCATTTCTGTAAAATGGGGATGATACCACTTCATA
 AAGTTGTGAGAGTTAAATGTGATCGATGATGTAAATTGCTTCATAGAATGCAGAATGTGT
 AATAGCTCACAATAAGTAGGTATTATGTTTACATATTATGTTTGTATTTATGCTACTTAA
 ATACAAAACCTGGACAGGCCAGGCATGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAG
 GCTGAGGTAGGTGGAAAACCTGAGGTGAGGAGTTCAAGAACAGCCTGACCAACATGGTGA
 AACTCCATCTCTACTAAAAATACAAAAATTAACCAGGCTTGATGGTGTGCACCTGTAATC
 TCAGCTACTCGGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAGGAGGCAGAGGTTGCAG
 TGCACCAAGACTGCGCCATTGCACTCCAGCCCGGCAACAAGAGCGAAACCCCATCTCGA
 AAAAAACAAAACAAAACCTAGACAAGTGAGTGCCTACGTGACACTCAAATGTTGCCAGCA
 TACAGTTAAGGGCCCTAGTCAATGTAGGCCTGCTTCTTATAGCTTTTTGACTATATTATG
 CTGTCTTTGACTTAGTCAGTCAACACTTATTGAGCACCTACTAAGTGCCAAACACTCTCC
 TGGACTCTGGCAAAATAAAAAATGAATTAATACTCT

Gene 519. >ENST00000229480 cDNA sequence

GTTTTCCCGGAAGGATAGCGATTACCGGAGCGCCTCGCGCGCCTGCCCGCCTGCGGAGGAC
 CCGGGCGCACACGCCTTGGCGCTTCTCGAAAGAGATTTCTCCACGCGACCTTCCAGTT
 CTCGGAGCCAGGTAGGGGTTTGGCGGAGGAGGACTGCGGGGCGCGGGCCTAGGGCCCCA
 GCAGCCACAGCCAGGGGAGCGCTCAAGACAGAAAGCCGGTGGCTTCTCACCTCCACCTG
 TAATGCAGGAGGGAGAATTGGCTATTTCTCCTATAAGCCCTGTGGCAGCCATGCCTCCCC
 TAGGCACCCACGTGCAAGCCAGATGTGAAGCTCAAATTAACCTGCTGGGTGAAGGGGGGA
 TCTGCAAGCTGCCAGGAAGACTCCGCATCCAGCCCGCACTGTGGAGCAGGGAGGACGTGC
 TGCACCTGGCTGCGCTGGGCAGAGCAGGAGTACTCTTGCCATGCACCGCGGAGCACGGGT
 TCGAGATGAACGGACGCGCCCTCTGCATCCTCACCAGGACGACTTCCGGCACCGTGCGC
 CCAGCTCAGGTGACGTCTGTATGAGCTGCTCCAGTACATCAAGACCCAGCGGCGAGCCC
 TGGTGTGTGGGCCCTTTTTTGGAGGGATCTTCAGGCTGAAGACGCCCACCCAGCACTCTC
 CAGTCCCCCGGAAGAGGTGACTGGCCCCCTCTCAGATGGACACCCGAAGGGGGCCACCTGC
 TGCAGCCACCAGACCCAGGGCTTACCAGCAACTTCGGCCACCTGGATGACCCTGGCCTGG
 CAAGGTGGACCCCTGGCAAGGAGGAGTCCCTCAACTTATGTCACTGTGCAGAGCTCGGCT

FIGURE 1 (CONT'D)

GCAGGACCCAGGGGGTCTGTTCTTCCCCGCGATGCCGAGGCCCCCATTGACGGCAGGA
TCGCTGACTGCCGCCTGCTGTGGGATTACGTGTATCAGCTGCTCCTTGATACCCGATATG
AGCCCTACATCAAGTGGGAAGACAAGGACGCCAAGATCTTCCGAGTTGTGGATCCAAATG
GGCTCGCCAGACTCTGGGGAAATCACAAGAACCGGGTGAACATGACCTACGAGAAGATGT
CTCGTGCCCTGCGCCACTATTATAAGCTTAATATCATTAGAAGGAACCGGGGCAGAAAC
TCCTGTTTCAGATTTCTAAAGACTCCGGGAAAGATGGTCCAGGACAAGCACAGCCACCTGG
AGCCGCTGGAGAGCCAGGAGCAGGACAGAATAGAGTTCAAGGACAAGAGGCCAGAAATCT
CTCCGTGAGGGGCAGGTGGACTCCAGGCACCCGGTACCGATGGGGCAGGGACCGAGTCTC
CCATGAAGGCAGACTCCTCCTCCCAGCAGAGCAGCAGGATCCCCAGCCAGACTCTGTACC
CACAGGATTACAGCCATTGCTTGGGAAGGCTGGGAGGCCTCCCATCCAGGACACTGGGGG
CAGGAGTGTATCTTTTGGGCAGGGCAATCCTGGGGCTAAATGAGGTACAGGGGAATGGA
CTCTCCCCTACTGCACCCCTGGGAGAGGAAGCCAGGCACCGATAGAGCACCCAGCCCCAC
CCCTGTAAATGGAATTTACCAGATGAAGGGAATGAAGTCCCTCACTGAGCCTCAGATTTTC
CTCACCTGTGAAATGGGCTGAGGCAGGAAATGGGAAAAGTGTTAGTGCTTCAGGCGGC
ACTGACAGCCTCAGTAACAATAAAAAAATGGTAGCTG

Gene 520. >ENST00000322766 cDNA sequence

ATTCCCCCTCCTCCCCCGGGAGCGGCGGGCGGGCGGGCCGGGGCCCCAGCGCGGGCCG
GGAGGGGGCACGGCGGAGGCCACGGAGGCAGGCGCGGGAGAAGACCGCGCTCCGCTTCCC
GGGCCGCGCCGACCTGCTCGGCGGCCTGCCCCCGCGCCAGGGGGCCCCGAACGGTGGG
GCCGGGCAGGCGGCTGAGGGCCTGTCCCCTCAGTTCCAGGTGCCATGAGGAAGCCTCGT
CGGAAGTCCCGGCAGAATGCCGAGGGCCGGCGTTCCCCGTCCCCCTACAGTCTCAAGTGC
TCACCCACCCGGGAGACCCCTGACATATGCCAGGCCCAGCGGATTGTGAGGTAGACATT
GATGGACGCCTGCATCGTATCAGCATCTATGACCCACTCAAAATCATTACTGAAGATGAG
CTAACTGCCCAGGATATCACCGAATGCAATAGTAACAAGGAAAACAGTGAACAGCCTCAG
TTCCCTGGCAAGTCCAAGAAACCCCTCATCCAAGGGCAAAAAGAAGGAATCCTGCTCCAAG
CATGCATCTGGTACTTCTTCCACCTCCACAGCCCAGCTTCCGTATGGTGGACTCAGGC
ATCCAGCCAGAAGCACCCCCGCTGCCTGCTGCCTACTACCGCTACATTGAGAAGCCACCT
GAAGACCTGGATGCAGAGGTAGAGTATGACATGGATGAGGAGGACCTTGCCTGGCTGGAC
ATGGTGAATGAAAAACGGCGAGTAGATGGGCACAGTTTGGTGTCTGCAGATACCTTTGAG
CTGCTGGTAGACCGGCTTGAGAAAGAGTCATACTTGGAGAGTCGCAGCAGTGGGGCCCAA
CAGTCACTCATCGATGAAGACGCTTTCTGCTGTGTGTGCCTGGATGATGAATGTCACAAT
AGCAATGTTATTCTCTTCTGTGACATCTGCAACCTGGCTGTACACCAGGAGTGCTATGGC
GTCCCATACATCCCTGAGGGCCAGTGGCTATGCCGCTGCTGCCTGCAGTCTCCCTCCCGG
CCTGTGGATTGCATCCTTTGCCCAATAAGGGTGGCGCCTTCAAACAGACCAGTGATGGG
CACTGGGCCCATGTGGTGTGTGCCATCTGGATCCCTGAAGTCTGCTTTGCTAACACCGTG
TTCTTGGAACCTATTGAGGGCATTGACAATATCCCGCCTGCCCGCTGGAACTAACCTGC
TATATCTGCAAGCAGAAAGGGCTAGGTGCAGCCATCCAGTGCCATAAGGTGAACTGCTAC
ACAGCATTCCATGTGACATGTGCACAGCGGGCTGGGCTCTTCATGAAGATTGAGCCCATG
CGCGAAACCAGCCTCAATGGCACCATCTTTACAGTGCAGCAAGACTGCCTACTGTGAGGCC
CACTCGCCACCAGGTGCGGCCACTGCTAGGAGGAAGGGCGACTCCCCTAGAAGCATCAGT
GAGACTGGCGATGAGGAAGGGCTGAAGGAGGGTGATGGAGAGGAGGAAGAAGAGGAAGAG
GTGGAGGAAGAAGAGCAGGAAGCTCAAGGCGGGGTGAGTGGCTCCCTCAAGGGAGTGCCC
AAGAAAAGCAAGATGAGTTTGAAGCAGAAGATCAAGAAGGAGCCAGAGGAAGCAGGCCAA
GACACACCCTCCACTCTCCCCATGCTTGCTGTCCACAGATACCCTCTTACAGGTTGAAC
AAGATCTGTAGTGGTCTCTCCTTTAGAGGAAAAACAGTTTATGCAGCGGCTTCACAAT
TATTGGCTGTTGAAGCGGCAGGCACGGAATGGTGTCCCTCTTATCCGGCGCTTGCACTCC
CATCTGCAGTCCCAAAGAAACGCTGAGCAGCGAGAGCAGGATGAGAAGACAAGTGCAGTG
AAGGAGGAGCTGAAGTATTGGCAGAAGCTCCGGCATGACTTGGAGCGGGCGCGGCTGCTG
ATTGAGCTGATTGGAAGAGAGAGAAGCTCAAACGAGAGCAGGTCAAAGTCCAGCAGGCT
GCCATGGAGCTGGAGCTGATGCCATTCAATGTTCTGTTGAGGACAACACTGGACCTGCTG
CAGGAGAAGGATCCTGCACACATCTTCGAGAACCAGTCAACTTGAGTGAGGCAAATTAC
CTGGAATTCATATCCAAGCCAATGGATTTTTCTACTATGAGGCGGAAGCTGGAGTCCCAC
CTGTACCGCACCTTGGAGGAGTTTGGAGGAGACTTTAACCTTATAGTTACCAACTGCATG
AAGTATAATGCTAAAGACACAATTTTCCACCGAGCAGCTGTCCGCTGCGGGACCTGGGA

FIGURE 1 (CONT'D)

GGGGCCATCCTACGGCACGCCCCGGCGGCAGGCAGAGAACATCGGCTATGACCCCGAGAGG
GGCACTCACCTGCCCCGAGTCACCCAAATTGGAAGACTTTTACCGCTTCTCCTGGGAAGAC
GTGGACAACATCCTCATCCCAGAGAACCGGGCCCATTGTCCCCAGAGGTGCAGCTGAAG
GAGCTGCTGGAGAACTGGACCTGGTGAGCGCCATGCGGTCCAGTGGGGCCCGCACCCGT
CGTGTCCGCTGCTACGCCGGGAGATCAATGCCCTTCGGCAGAAGCTGGCACAGCCACCA
CCACCACAGCCACCATCACTCAACAAGACAGTATCCAATGGGGAGCTGCCAGCAGGGCCC
CAGGGGGATGCAGCTGTGCTGGAGCAGGCCTTGCAGGAGGAGCCAGAAGACGATGGGGAC
AGAGATGACTCCAACTGCCTCCTCCGCCAACCTGGAGCCCACTGGGCCTGCACCTTCC
TTGTCTGAGCAAGAATCCCCCCCCGGAGCCCCCTACTCTGAAACCCATTAATGATAGCAAA
CCTCCAAGCAGGTTCTTAAAGCCCAGAAAGGTGGAAGAAGATGAGCTCTTGAAAAATCA
CCACTGCAGCTAGGGAATGAGCCTTTGCAACGCTTGCTCAGTGACAATGGCATCAACAGA
CTATCCCTCATGGCCCCCTGACACCCCCGGCCGGTACCCCACTTAGTGGTGTGGGTGCGCGC
ACATCAGTCCTCTTCAAGAAGGCCAAGAATGGGGTTAAGCTACAGAGAAGCCAGACAGG
GTCCTGGAGAATGGCGAGGACCATGGTGTGGCAGGCTCTCCTGCCTCTCCAGCCAGCATC
GAGGAAGAGCGCCACTCCCGGAAGCGGCCAAGGAGCAGGAGCTGTAGTGAGAGCGAAGGG
GAGAGGTCCCCCAGCAGGAGGAAGAGACAGGCATGACCAACGGCTTTGAAAAACACACC
GAAAGCGGGTCTGACTCTGAATGTAGTTTGGGTCTCAGTGGTGGACTGGCATTGTAAGCT
TGCAGTGGTCTGACGCCCCCAACCGCAGCCGTGGGAAGCCAGCCCTGTCTCGAGTGCCC
TTCCTGGAAGGTGTGAACGGGAGACTCTGACTACAATGGCTCAGGCAGAAGCCTCCTGCTG
CCCTTTGAAGACCGCGGAGACCTGGAGCCCTTGGAGCTGGTGTGGGCCAAGTGCCGAGGC
TACCCCTCCTACCTGCCTTGATCATCGATCCCAAGATGCCCCGGGAGGGCCTCCTGCAC
AATGGCGTTCCCATCCCTGTCCCCCGCTGGACGTGCTGAAGCTGGGAGAGCAGAAACAG
GCAGAGGCTGGAGAGAAGCTCTTCTTGTCTCTTCTTTGACAACAAGCGCACCTGGCAG
TGGCTTCCAAGGGACAAAGTCTGCCCCTTGGGTGTGGAAGACACCGTGGACAAGCTCAAG
ATGCTGGAAGGCCGCAAGACCAGCATCCGCAAGTCAGTGACGGTGGCCTATGACCGTGCG
ATGATCCACCTGAGCAGAGTCCGGGGGCCCCACTCCTTCGTCACTTCCAGCTACCTGTAA
GGGCAGGGCTGGGCCTGCATCCGCTTGCCCTGCCTCCATCCCGCAGGGCACAGAGAAGCC
TCTTCTGCCCCCTGCCAGATGTATGGCCGGCAGCTTCCCCCTCTCATGGTAGGCCAGGGAC
TGGGCTTTCTCCCCACTAAGGGCAAGGCCCCAGTTTTGACCAATCGCATGGTTCTCCTGG
CAGGCCTGCTGTGTGCCAAAACTCCCAACCAAGGTCCCTCAGGGGATATTTCACTGAAG
AACCAGTTAGAAGTAGAAACAGCTGTGGGGCTTGGGCCCAGCTTAGGAGATTGCCAGAT
GGCAAGAGGTCTGGGCTCCTTCTTGAGGGGTGCCTGGCCCCGCTCCATCCTACTCCCAC
TAACTACACCTCAGGGCGGGTGAGGTTCCGACACTGATCCAGAGATGCCGTGGATACGC
CAGGGTCCCAGGGGGAATCTCCCCAAGCTCACACTCTCTCCCGCTTATCGCCTATTCTCA
CACCTCTTCTCGGTCCCATCTTCTGCACCCATTGCCAGTCTTGCTTTCTCTTTCCATA
TTCCTTTTCTTTTCTCTTGTGCCAACTGACAGAAACCGTCACCACACTGGTCTTTTTTC
TTTAATGTCTCATTCCCTTTGAGGCCAGCTGCTATGCCAGGTGGTGTCTCTGCCAGGCTC
CTCAGGCCCAGACAGAGGCCAGCCCACAACCTATGACCCCTCCCCCAGGACACCACCTC
CCACCCACAGACCTTCCCTTTAGCTGTTGACACAACCTTCCCAGCTCTGCAAGTGTGCCCC
CTGGATCAAGGCGGGTCCCCTCTTGTTTTTTCTTTGCTGCCACGAGGTGGTCCAAGCCT
TCAGGGTGGGCTCCTATCAGGCTGGGTGTGCGAGTGTCCATCTGTCCACATGGATGTGCA
GGGTGGTTTTGTGTGGAGCTGTGCTCGTCAGCTGGGTCTGCCCTCTTCCCCCTTTTCTCCT
TCTTCTCTCCTCATGGACTTTTTCTGCAATTGCAGTCTTAAGCTTCACTCTCCACCACCT
GGATGGCATGGCGCCTGCCACCAACATCTTCTGGCCTGCGCTCTGCCCTGCCCTGCCT
AGCCTCTGCTACTCCCACTTCCCAACTCCAGGGAATGCATTACTTTTATTTCAAACCTC
TGCCTCCTTCTTCTTTCTCTTCAACCCCTCCCCACCTTCACTTCTCAAAAATGGAAG
GAAAAAAAACCTGTGAATGGGGAATGCTGACTGACAAACCAACACAACCTTTAGAGGCTT
CAGTGTCTGTTCTCTGGACATTTCTTTTCACTCCTGAGCACCAAGTCGAGGGCCAGT
TGCAGGCCGCTGATTGCCATGTTGATTTTAACTGATATTCTTTTTAATTGTTTTAAAT
TTTTCATAGGGGAGTTTTGGACAAAACAGTCACTGGGGAGATCACTGCCATTTTACACA
CTTGACTTTTTTAAAAATACAACCAACCAACCACCAACTTCTTATACATTTGGGACATG
AGCCAGAGTTTAAAAGGGAACCAACAAAACACTATAACTTAAAAGGATGGGGTTTTGGAT
TTTGTATAATAATAAAAACAATACAGCATATGGCTAGGGAAGGACATGGTGTATATAATT
GTAAAATACTGTTCTAAATTATTAGGCCTATAGTTTCCATTACTGGAGTCCTCCATTGT

FIGURE 1 (CONT'D)

GTGGCCACACAGTGTCTGTTGATTTAAAGGAGCCAGTGCTTCCCCTCTCCCCAGGTAGTTG
 GTCAGCTGTGGACTCTGTGACCTTTGTCTAAACCTGTGTTGTAAGATCTTGGGACTTCCT
 CTCTTTCTATGTCTATCTCTTCCCCCAACACTTTCTCTTCTTAGTCTCTCTCTTTATTT
 TTCAATCTCTGAATATTTTAGTCTCTCTCTGAGTCTCATTTTTTAAAATGCTCTTTTAGA
 ACGGGAAACGGCTCAGATCCTGCTGTGGCACGGGGCCTATGTGTCTCTGTGCGTCTGCT
 GTGAAGCACATGATGCTCTATTTATTGTAGAGAGTGACTTTATTTGCTTTCTAGAATTGT
 TTATAACAGATGGTATAAGAGAGGTAATAAACAGAGAAAAATCTATGCTTGTAAGAATA
 CAAAAGTTAATTTTACCTACTATAATATGACTGTCTGAACTTATTTTCTCTCTGAGAA
 TAAATGTTCTAATGGGC

Gene 521. >ENST00000211291 cDNA sequence

CCGGGAGACCCTGACATATGCCCAGGCCAGCGGATTGTCGAGGTAGACATTGATGGACG
 CCTGCATCGTATCAGCATCTATGACCCACTCAAATCATTACTGAAGATGAGCTAACTGC
 CCAGGATATCACCGAATGCAATAGTAACAAGGAAAACAGTGAACAGCCTCAGTTCCTGG
 CAAGTCCAAGAAACCTCATCCAAGGGCAAAAAGAAGGAATCCTGCTCCAAGCATGCATC
 TGGTACTTCCCTCCACCTCCACAGCCCAGCTTCCGTATGGTGGACTCAGGCATCCAGCC
 AGAAGCACCCCGCTGCCTGCTGCCTACTACCGCTACATTGAGAAGCCACCTGAAGACCT
 GGATGCAGAGGTAGAGTATGACATGGATGAGGAGGACCTTGCCTGGCTGGACATGGTGAA
 TGAAAAACGGCGAGTAGATGGGCACAGTTTGGTGTCTGCAGATACCTTTGAGCTGCTGGT
 AGACCGGCTTGAGAAAGAGTCATACTTGGAGAGTCGCAGCAGTGGGGCCCAACAGTCACT
 CATCGATGAAGACGCTTTCTGCTGTGTGTGCCTGGATGATGAATGTCACAATAGCAATGT
 TATTCTCTTCTGTGACATCTGCAACCTGGCTGTACACCAGGAGTGCTATGGCGTCCATA
 CATCCCTGAGGGCCAGTGGCTATGCCGCTGCTGCCTGCAGTCTCCCTCCCGGCCTGTGGA
 TTGCATCCTTTGCCCAATAAGGGTGGCGCCTTCAAACAGACCAGTGATGGGCACTGGGC
 CCATGTGGTGTGTGCCATCTGGATCCCTGAAGTCTGCTTTGCTAACACCGTGTTCCTGGA
 ACCTATTGAGGGCATTGACAATATCCCGCCTGCCCGCTGGAACTAACCTGCTATATCTG
 CAAGCAGAAAGGGCTAGGTGCAGCCATCCAGTGCCATAAGGTGAACTGCTACACAGCATT
 CCATGTGACATGTGCACAGCGGGCTGGGCTCTTCATGAAGATTGAGCCCATGCGCGAAAC
 CAGCCTCAATGGCACCATCTTTACAGTGCAGCAAGACTGCCTACTGTGAGGCCCCTCGCC
 ACCAGGTGCGGCCACTGCTAGGAGGAAGGGCGACTCCCCTAGAAGCATCAGTGAGACTGG
 CGATGAGGAAGGGCTGAAGGAGGGTGATGGAGAGGAGGAAGAAGAGGAAGAGGTGGAGGA
 AGAAGAGCAGGAAGCTCAAGGCGGGGTGAGTGGCTCCCTCAAGGGAGTGCCCAAGAAAAG
 CAAGATGAGTTTGAAGCAGAAGATCAAGAAGGAGCCAGAGGAAGCAGGCCAAGACACACC
 CTCCACTCTCCCCATGCTTGGCTGTCCACAGATACCTCTTACAGGTTGAACAAGATCTG
 TAGTGGTCTCTCCTTTTCAAGGAAAAACAGTTTATGCAGCGGCTTCACAATTATTGGCT
 GTTGAAGCGGCAGGCACGGAATGGTGTCCCTCTTATCCGGCGCTTGCACTCCCATCTGCA
 GTCCCAAAGAAACGCTGAGCAGCGAGAGCAGGATGAGAAGACAAGTGCAGTGAAGGAGGA
 GCTGAAGTATTGGCAGAAGCTCCGGCATGACTTGGAGCGGGCGCGGCTGCTGATTGAGCT
 GATTTCGGAAGAGAGAGAAGCTCAAACGAGAGCAGGTCAAAGTCCAGCAGGCTGCCATGGA
 GCTGGAGCTGATGCCATTCAATGTTCTGTTGAGGACAACACTGGACCTGCTGCAGGAGAA
 GGATCCTGCACACATCTTCGAGAACCAAGTCAACTTGAGTGAGGTTTTATATGTTTAGGT
 TCCAGATTACCTGGAATTCAATATCCAAGCCAATGGATTTTTCTACTATGAGGCGGAAGCT
 GGAGTCCCACCTGTACCGCACCTTGGAGGAGTTTGGAGGAGACTTTAACCTTATAGTTAC
 CAACTGCATGAAGTATAATGCTAAAGACACAATTTTCCACCGAGCAGCTGTCCGCCTGCG
 GGACCTGGGAGGGGCCATCCTACGGCACGCCCGGCGGCAGGCAGAGAACATCGGCTATGA
 CCCCAGAGGGGGCACTCACCTGCCCCGAGTCACCCAAATTGGAAGACTTTTACCGCTTCTC
 CTGGGAAGACGTGGACAACATCCTCATCCCAGAGAACCGGGCCCATTTGTCCCAGAGGT
 GCAGCTGAAGGAGCTGCTGGAGAACTGGACCTGGTGGAGCGCCATGCGGTCCAGTGGGGC
 CCGCACCCGTCGTGTCCGCCTGCTACGCCGGGAGATCAATGCCCTTCGGCAGAAGCTGGC
 ACAGCCACCACCACACAGCCACCATCACTCAACAAGACAGTATCCAATGGGGAGCTGCC
 AGCAGGGCCCCAGGGGGATGCAGCTGTGCTGGAGCAGGCCTTGCAGGAGGAGCCAGAAGA
 CGATGGGGACAGAGATGACTCCAACTGCCTCCTCCGCCAACCTGGAGCCCCTGGGGCC
 TGCACCTTCCTTGTCTGAGCAAGAATCCCCCGGAGCCCCCTACTCTGAAACCCATTAA
 TGATAGCAAACCTCCAAGCAGGTTCTTAAAGCCCAGAAAGGTGGAAGAAGATGAGCTCTT
 GGAAAAATCACCACTGCAGCTAGGGAATGAGCCTTTGCAACGCTTGCTCAGGCAGGGCTG

FIGURE 1 (CONT'D)

GGCCTGCATCCGCTTGCCCTGCCTCCATCCCGCAGGGCACAGAGAAGCCTCTTCTGCCCC
TGCCAGATGTATGGCCGGCAGCTTCCCCCTCTCATGGTAG

Gene 522. >ENST00000310390 cDNA sequence

ATGGAGCCCAATGCTACGTTACCACGCAGCTCACGGCCACACCTGAGCGACTGCTCCGA
CTCATCTCTGCTGGGGTCTGTGGCCTCATCCTGCTGGTGGGGCTGTGAGCTAATGGGCTC
ATGCTGCTGGTGGTGGGCCGGGGCCGGGCTCCCCCACCCGCTCCACTCCCTGACCCAC
AGCCTCATGATGAACATCACGCCATCTGACCTGCTCTTCTGCGCTGCGTGGTGCCTGTG
CTGCTGCTGAGCTTCTGTCAGCACAACCTGGTGGCTGGGCCCTGCCATCTGCACCATTAGC
CAGGCCACCAACACAGCCACCACGTTCTGCATCTTCTATAGCATGGTGGCCACAGCTCTC
CTGCGCCATGTGGCTGTGGCCCGGCTGACCTGGCCTTCCAGCCGGCTGGGGCACCTC
TTGCTGCTCTGTGGGGCCATGTGGGCCCTGGGCCTTACAGAATCCCTGCCCAACTGGCTG
TTCCAGAGGGTGGCAGTGGAGGAGGAGACAGCGGGGGCTCCCAAGACCCAGGCCTGCCTC
TTGCTCCTGAGCCCTGCTGGGACCTCCTGCTACATCAGCCTGCTGGGAGCCCTGGCCTTC
CTGCCATGCACGCTGGGGCTGGGCTGCTCTTTAGCCACGTGGGCTGGCTCCTGTGGACC
CAGCCCCAAGGTCCCATGGGAGAGAGCATCCAGGAGCATTAA

Gene 523. >ENST00000244437 cDNA sequence

GAGAGAGTTGGTTGGTGTGGGGCCGGAGGAAAGCGGGAAGACTCATCGGAGCGTGTGGAT
TTGAGCCCGCCGATTTTTTAAACCCTAGATCTCGAAATGCATCGTGATTCTGTCCATTGG
ACTGTAAGGTTTATGTAGGCAATCTTGGAAACAATGGCAACAAGACGGAATTGGAACGGG
CTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTG
CTTTTGTGTAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAA
GAACACTATGTGGCTGCCGTGTAAGAGTGGAACTGTGCAATGGTGAAAAAGAAGTAGAA
ATCGTGGCCCCACCTCCCTCTTGGGGTTCGTGCGCCCTCGAGATGATTATCGTAGGAGGAGTC
CTCCACCTCGTTCGAGATCTCCAAGAAGGAGAAGCTTCTCTCGCAGCCGGAGCAGGTCCC
TTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCC
GATCCTTCTCTAGGTCTCGTAGTTCGATCTAGGTCAAATGAAAGGAAATAGAAGACAGTTT
GCAAGAGAAGTGGTGTACAGGAAATTACTTCAATTTGACAGGAGTATGTACAGAAAATTCA
AGTTTTGTTTTGAGACTTCATAAGCTTGGTGCATTTTTTAAGATGTTTTAGCTGTTCAAATC
TGTTTTGTCTCTTGAAACAGTGACACAAAGGTGTAATTCTCTATGGTTTTGAAATGGATCAT
ACGAGGCATGTAATACCAAGAATTGTTACTTTACAATGTTCCCTTAAGCAAAATTGAATT
TGCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCAGCGGAA
GTGTGTTTTTTTTTAAATTTAAATACAGAAACAACCTGGCAAAATTTGAACTAAGATTTAC
TTTTTTTTCCATAGCTGGGATATAGGCTGCAGCTATAGTTGAACAAGCAGTCTTTAAAAA
CTGCTGTGAAACACAGGCCATCAGGGAAAACGAAATGCTGCACTATTAAATTAGAGGTTT
TTGAAAAATCCAACCTCTCATCCTGGGCAGAGGTTGCCTAGTTGGTATAGAATGTTAAGTT
TCAAGAAAGTTTACCTTTGCTTTAGGTGATAAGTTTCCTTATTTGATTGCTGTATATGGAT
ACATGGCTGTTTCGTGACATTCTTTATGTGCAAATTTGTGATTTCAAAAATGTCCTGCCAG
TTTAAGGTACATTGTAGAGCCGAACTTTGAGTTACTGTGCAAGATTTTTTTTTTCATGCT
GTCATTTGTAATATGTTTTGTGAGAATCCTTGGGATTAAAGTTTTGGTTACAAATTGTTTC
TTTAACTTGAAAGCCTGTTTTTCTTGCAAACCTCAAATCTGTGAGCTTGGTACCAAGTCC
AGGTATAACATTCTATTGGAAGCCATACTTATATTTTCTTGTAAGTGCTTTTGAATTA
ATAAAATATTAGCATAATTGTGTATAGTCAGTTGAACCCACTGTTACCATTGTTCTTATC
CCATGGGAAGCAGTTGGTTACACGATTCTTATTTTATAAGAAACAGCTGAGAGGCATAT
GGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGATAGTTAACCATT
TTTTTTTTTTTAGGCATAGAAGCCAGTTCAGGGTCCATAATATTTAGTGACCAACATTTT
AAAGTATAGCAGCAACCTGGTTCTTAAACACAAAGTAAGTTGCCCATTAACAAATGGCTT
TTATCTTTAGCATGAAAACCTTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAG
GTGTTGCATGGGAATTCTAAGCTGATCCATCATGATGTAAAAGTTCACAATATGGTTCAA
ATGTAACAGTGCAGAATTGAATATGGAGGCATGCATAACCTTCTCTTAGAAAATGGCAG
GTGTTGTAATTTCAAATTTTTGTGCAATTAGATTAAATCATAATGCAACAGTC

Gene 524. >ENST00000244741 cDNA sequence

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTTCTTGTGGAGCCGGAGCTGGGCGCGGAT
TCGCCGAGGCACCGAGGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACAACAGGGGACC
CCGGGCCGGCGGCCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTGCGTGTCCGCGA

FIGURE 1 (CONT'D)

GGATGCGTGTTTCGCGGGTGTGTGCTGCGTTACAGGTGTTTCTGCTGCAGGCGCCATGTC
 AGAACCGGCTGGGGATGTCCGTGAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCTCTT
 CGGCCAGTGGACAGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCAT
 CCAGGAGGCCCCGTGAGCGATGGAACCTTCGACTTTGTACCGAGACACCACTGGAGGGTGA
 CTTTCGCCTGGGAGCGTGTGCGGGGCCCTTGGCCTGCCAAGCTCTACCTTCCACGGGGCC
 CCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCACCTCACCTGCTCTGCT
 GCAGGGGACAGCAGAGGAAGACCATGTGGACCTGTCACTGTCTTGTACCCTTGTGCCTCG
 CTCAGGGGAGCAGGCTGAAGGGTCCCCAGGTGGACCTGGAGACTCTCAGGGTCGAAAACG
 GCGGCAGACCAGCATGACAGATTTCTACCACTCAAACGCCGGCTGATCTTCTCCAAGAG
 GAAGCCCTAATCCGCCACAGGAAGCCTGCAGTCCTGGAAGCGGAGGGCCTCAAAGGCC
 CGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTTGTGTTTTAA
 TTTAAACACCTCCTCATGTACATACCCTGGCCGCCCCCTGCCCCCAGCCTCTGGCATTGA
 GAATTATTTTAAACAAAACTAGGCGGTTGAATGAGAGGTTCTAAGAGTGCTGGGCATTTT
 TTATTTTATGAAATACTATTTAAAGCCTCCTCATCCCGTGTCTCTCTTTCTCTCTCCC
 GGAGGTTGGGTGGGCGGGCTTATGCCAGCTACTTCTCTCTCCCCACTTGTCCGCTGGGT
 GGTACCCTCTGGAGGGGTGTGGCTCCTTCCCATCGCTGTCAAGGCGGTTATGAAATTCA
 CCCCCCTTCTGGACACTCAGACCTGAATTCCTTTTTCATTTGAGAAGTAAACAGATGGCA
 CTTTGAAGGGGCCTCACCGAGTGGGGGCATCATCAAAAACCTTTGGAGTCCCCTCACCTCC
 TCTAAGGTTGGGCAGGGTGACCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGGACCTG
 GTACCCTCCTGGCTCTTGATACCCCCTCTGTCTTGTGAAGGCAGGGGGAAGGTGGGGTC
 CTGGAGCAGACCACCCGCTGCCCCCTCATGGCCCCCTCTGACCTGCACTGGGGAGCCCGTC
 TCAGTGTTGAGCCTTTTCCCTCTTTGGCTCCCCTGTACCTTTTGAGGAGCCCCAGCTACC
 CTTTTTCTCCAGCTGGGCTCTGCAATTCCTCTCTGCTGTCCCTCCCCCTTGTCTTTT
 CCCTTCAGTACCCTCTCAGCTCCAGGTGGCTCTGAGGTGCCTGTCCACCCCCACCCCA
 GCTCAATGGACTGGAAGGGGAAGGGACACACAAGAAGAAGGGCACCTAGTTCTACCTCA
 GGCAGCTCAAGCAGCGACCGCCCCCTCCTCTAGCTGTGGGGGTGAGGGTCCCATGTGGTG
 GCACAGGCCCCCTTGAGTGGGGTATCTCTGTGTTAGGGGTATATGATGGGGGAGTAGAT
 CTTTCTAGGAGGGAGACACTGGCCCCCTCAAATCGTCCAGCGACCTTCCTCATCCACCCA
 TCCCTCCCCAGTTTCATTGCACTTTGATTAGCAGCGGAACAAGGAGTCAGACATTTTAAGA
 TGGTGGCAGTAGAGGCTATGGACAGGGCATGCCACGTGGGCTCATATGGGGCTGGGAGTA
 GTTGTCTTTTCTGGCACTAACGTTGAGCCCCCTGGAGGCACTGAAGTGCTTAGTGTACTTG
 GAGTATTGGGGTCTGACCCCAAACACCTTCCAGCTCCTGTAACATACTGGCCTGGACTGT
 TTTCTCTCGGCTCCCCATGTGTCTGCTTCCCGTTTCTCCACCTAGACTGTAAACCTCTC
 GAGGGCAGGGACCACACCCTGTACTGTTCTGTGTCTTTACAGCTCCTCCCACAATGCTG
 AATATACAGCAGGTGCTCAATAAATGATTCTTAGTGACTTT

Gene 525. >ENST00000265344 cDNA sequence

TAACTTTTCCGTCTGCAACCTTTAATAATTGAGAGGGTATGCGCAACTCAGAAAAGTGCG
 CCCGCTGAGGTTGGGTGCAGAGTGGACTGGAGGAAAGGCGACACCCATTTACGGTGCGGC
 CCCGACGGGGTCCCAGACACGGCCTTCCCGCGTGCCACGCGCGGAGGGGACTCTTAA
 CGTGAAGCGCTGGGTGACTCAGCCGCGTGGCCGCGCGGTCCGGGGCGGGGGCGCGCGCC
 GCTGCGGCACAGCCGCTCCCGGCTGCGGCTTCTGGCTGCGCGGCCTGCGCGCGCCTCCCG
 GGCGGATTCCAGCCCCGAGCGGGACAGCGCGGGCGGGGAGCGACGAGATTTCTCTCTGATC
 AAACGGACAGTTCAGGACTCAGAATCTAAGGATGAATGTTACCGTGGCAGTGACAGTGA
 CAGGTTATTGCGGCAGGAGGCCAGCTGCTTAGTGGATGATACTTTAGCTGTAGCCCAAGA
 AAAAGAAGCAAACAGCCTGGCTTCATCTGGTCCTCATAATCTTACTTATCCTCTAGGTCC
 CAGGAATGAAGGTGCTTTACTCCATGAACTGTCTAATGACGGTGCTCATAAGCAGTTTGA
 TCACTACCTCGAAGAGCTCATCTTGCCCATCATGGTGGGCTGTGCCAAGAAAGGAGAACG
 AGAGTGCCACATTGTTGTGCTGACGGATGAGGATTCTGTGGACTGGGATGAAGACCACCC
 TCCACCAATGGGGGAGGAATATTCCCAAATTCTTTATAGCTCCAAGCTCTACAGATTCTT
 CAAATATATTGAGAATAGGGATGTTGCAAAAACAGTGTTAAAGGAACGGGGCCTAAAAAA
 CATTGCGATTGGAATTGAAGGTTACCTACCTGTAAAGAAAAAATTAAGAGAAGGCCTGG
 CGGCCGGTCTGAAGTCATCTATAATTATGTACAACGCCCTTCATCCAGATGTCATGGGA
 AAAGGAAGAAGGGAAGAGTCGCCATGTGGATTTCCAGTGTGTTTGAAGCAAATCCCTCAC
 GAATCTGGTAGCTGCTGGAGATGATGTCTTGGAGGACCAGGAGATATTAATGCATCACCC

FIGURE 1 (CONT'D)

ACCCCAAGTGGATGAACTTGACCGGCTAAATGCCCCACTTTCTCAGATGGCTTCTAACGA
 CTTTCAGGATTAGGGCCAGCTGTGGGTCTACTCCTTGTTGGAGCCCATCTCACCTGGGAT
 GCCTGCAGCCAGCCCTCCCTCGTGATTTGTCTCACCTTGAGTAGGAGACATGCTTCTCCC
 CTAACCTTTTTCTTTCTGCCATAATTAACATATGTCCTTTTCAGTAAGTCCATGCCTCTG
 GCAGGGGATGAAGAAGTACTCACTGGTAATTAGCTACCATCTTTCAGCAGCCCTGGTAA
 CTTGAAAAATTTGGGTCTGGTGCTGTTTCATTGAGTCTTTGTGTAAGTGCAAAAGCAGGAA
 AGGAAGTCAAGACTCCTGTTGCCTCGTGCTTAGCAAAGCAGTCCTTATCCTTTATACTCT
 GTTCTTGGGTTTTGTTTTTGTCTTGTTTTTATACCAGGCAAATTGCTTAGTAGCAAAGGGA
 CCAAACCTGAAAAGGTGACAATCTCTAACTTCTAAAAGCAGACACCAATCGGATGCTCATT
 AGAGGTTAATGAAGATGCCATTCTTGGTGGCCTCTGCACCCAAATTGCATCTGGAAAGAA
 CTAGGGTCTCATTGAGAATGTCCAAAAGGAAATTCTTAAGAGCTTAAATTGAGATTTGTG
 TCTCATTAATGCAGTGAACAATTCAAAACACACAGATTCTTGGCAGGAAGGATAATGG
 AATAACAGTGTGATGAGACCTTTTTAGCTTCAAGGTTTCGGAGTCTAAACAAATGGATG
 ATTCATTTGGAATGAACTCACAATGCAAGTAGAAGGACCTCTCAAATCAGGCCAGTTG
 GGTATCTCTGGCTTGAATCTGGTGTGAAACCATAGGTCTTAACACTCTGGAGCAGCACA
 TTGCTGTGGATATGTCCAGGAGACCTTAGATATGGCTTAAAGGCTTTCAAGATGAGGACA
 GAAATTGCTTACAATTGCTCAGTTTCTCAACAGAAAGACTCATAAGAGTGCCAGCATGGG
 GTACATGGAGTGAAGCTGGGTGGGAAGCATCATCTGCACAGTCCCTGTCTAGTGCAGGA
 CTTTTCTCTGTATGTTTTCATACCATGGGATTTTTGGATATCAGTGTATTTTGGTTCTTG
 AAATAGCCTAATAGCTGCTCACACATTGGGTAGGAATATTATACCAATGTATCCCCAAA
 GGAAGGGTGAGCTGAATGGAAATTAAGCCCAGTCATTTTATTTGATCTATTAGCTCTGTT
 ATCAGTGCATGATCACCCAGATCACCTCCTCAGCCACACAGTGTGAACCATCTTCCC
 TCCTGTTCTCCATGGCTATTAATAGTATAGCTAAATTTAGAGTGCAGAGCCAGATATAAG
 TATTTTGGAAATTATCTCCAGTTTGTGGTAGAAGCTGACTGGAATACAGGTTGAGTATCT
 CTTATCCAAAATGCTAGGGACCAGAAAGGTTTTGAGTTTTTTTTCAGTTTTTGGAACTTA
 ACAGTTGAGCACCCCAAATCTGAAAGGCTTCTGAACGTCTGTGAGCACTCAAAAAAGTG
 GATTTTGGAGCACTTCAAATTTTCGGATTTTTGGATTTGGGATGCTCATCCTGTGTAGGAG
 AGGCTACTCGATTCCATTTAATGACTGTCTAGTCATAATCATCCAAAGATAAAAGCCAG
 GTAGATGTTGAAAGCTCTTTCCAGGGCTGAAAAAGTGTTCTTACGTTCTCTGCATGTGAC
 TAGCATCACTGTGGAAATTAATGCTCTGTTCTTCACTAGAATGTAGTAAGTGGTTAAACT
 GAGCTATCCCCACCTGATGACTATTGGCATCCATTTGCAAGGCCAATGGCCTGGATTAA
 GGGTTAGGATTATTTGTAGCTAGAAGGTAATTTTATTTCTGTGAAACTAATTGGCTCATA
 TTTGAGGTTAGGTGTGGCCTTGACCTTACCAGTACATTTATACCCACTACCAGTTGACTA
 GCCCAGATAAATTGTTAAATGGTGCTTCTTTTTCTGCTTCTCAGTAGACTTCCATGCCATTA
 CAAAGGAAATTTGAATTACCTAGTGTGTTGTATATTCCATGATAACTATGTATAACTTCTG
 TTACACAGCTTATGTATTGTTAAACATTTAAGTGTAACCATGCCACAGCTAACACTTAAA
 AATGAAAACATAATTAGTTCTTGCTTAGGGAAAATGCCAGGTATGAAGTATGGCATATACT
 TGACACTGTCTGTGTAACCTTTTACTTTGCTCAGGCTTTCAAGATTGAGTCTTTTTTCC
 CCCAAATTAGGTTAACATGCATTTGACCCCAACCTGTGGGGTTTGAAGTAAAGCTGGAAATC
 TGTGACGGTAGGCTTTCTAGTGTACAGAGGTGGTGGTGAAGGAAAAGCTGGGATCA
 CAGGTTCTTCTGATGGAGAGGAAGGTTATTTCTATGCCCCCTCCACCACCCTCCACCT
 AGAGCTCACCAAGCCTGCTCCAGTCCCAGGGGCAGGCCATTCTGCAAAAGCAGGACCTC
 ACAGAAACAAGGGCTGGGTTGAGGTACCCCCCTTCAAGATTGGTTCTTGCCAGATGGGT
 AAGAGGCATTTGTAATTTTAAAAATGTGAACTTGGGTTTGGTGTTTTCTTCTAAGTGCC
 TAAATAAGCAAGCCAGGCTGTTGATATTTTAGCCAGAGAAATCGGCAAGCCAAGATTAAAC
 CCGAATCTGAAGTTTGAATCTTGAGTTTGCATCTGCATCATATCATGCTGTTTTGATGA
 GGAAACATTTGCCACTGAGGAGTTGGAGGGAGGGCAAGACGACAGTGTAAAGTCAGATCA
 TTTAATGGTTTCCCCTAAGCCCTGGAAAAATATTTGAAAGAATGGCAGCAAAAAGGTTAA
 GAAAGCAAGCCAGATTTACTGCACAATATGCAGTACCCAGTACTACTTTAAATCCCAAGA
 GAACAGTGTGATGTCTAATATATACAGGTCTATGAAAATACTGTGGAATAAGCCAGGAA
 GGTAGATGTGTTTGCATAAAGTTGCCCAAAGGGTCCCCCTCTAAGTAAACAAATATT
 CAGACCACAGGCTTTAATGTAACTGTCAAAAAGTGGGATGTGGAGGATTTTTGTAAAGT
 GTCATCGAAGTTAAAAAGCAAGGGTTTTTGGCCAGGCGTGGTGGCTCACGCCTGTAATC
 CCAGCACTTTGGGAGGCCGAGGCCGCAATCACCTAAGGTGAGGAGTTCGAGACCAGCC

FIGURE 1 (CONT'D)

TGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCCGGTGTGGT
GGCAAGTGCCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCG
GGAGGTAGAGGTTGCAGTGAGCCACGATCATGCCACTGCACTCCAGCCTGGGCAACAGAG
CAAGACTCCATCTC

Gene 526. >ENST00000229812 cDNA sequence

CTCGGCCCCGGGCTGCCGCGCCAGCCCGTCTCCGCGCGGGGGACCGGGCTGCCTTGGCC
CCTCAGCGCTCGCGTCTTTTCCGGCAGTTGGAACGCTTCCTGTTGTCTCACCCTGAACC
GCCTGTTGCCCCCTGTCTCAGAGTCCCTCACGCGTCCCCTCCCGTCTTTGGCTCGTTGGC
TGCCGCCGCCGGGGCTTCGCCAGCCTTCAAGTCGAGACTACTGGCCGAAGGGGCGTCTGC
GGCTCTCCGCCGTCCCAGCCCTGCCTCTCCCTGGGCTCTGCAGCCATGGCAATGACAGG
CTCAACACCTTGCTCATCCATGAGTAACCACACAAAGGAAAGGGTGACAATGACCAAAGT
GACACTGGAGAATTTTTATAGCAACCTTATCGCTCAACATGAAGAACGAGAAATGAGACA
AAAGAAGTTAGAAAAGGTGATGGAAGAAGAAGGCCTAAAAGATGAGGAGAAACGACTCCG
GAGATCAGCACATGCTCGGAAGGAAACAGAGTTTCTTCGTTTGAAGAGAACAAAGACTTGG
ATTGGAAGATTTTGTAGTCTTAAAAGTAATAGGCAGAGGAGCATTGTTGGTGAGGTACGGCT
TGTTGAGAAGAAAGATACGGGACATGTGTATGCAATGAAAATACTCCGTAAAGCAGATAT
GCTTGAAAAAGAGCAGGTTGGCCACATTCTGTGCGGAGCGTGACATTCTAGTGAGGCAGA
CAGTTTGTGGGTTGTGAAAATGTTCTATAGTTTTCAGGATAAGCTAAACCTCTACCTAAT
CATGGAGTTTCTGCCTGGAGGGGACATGATGACCTTGTTGATGAAAAAGACACTCTGAC
AGAAGAGGAGACTCAGTTTTATATAGCAGAAACAGTATTAGCCATAGACTCTATTACCA
ACTTGGATTATCCACAGAGACATCAAACCAGACAACCTTCTTTTGGACAGCAAGGGCCA
TGTGAAACTTTCTGACTTTTGGTCTTTGCACAGGACTGAAAAAGCACATAGGACAGAATT
TTATAGGAATCTGAACCACAGCCTCCCCAGTGATTTCACTTTCAGAACATGAATTCOA
AAGGAAAGCAGAAACCTGGAAAAGAAATAGACGTAGCTAGCCTTCTCCACAGTAGGCAC
TCCTGACTACATTGCTCCTGAGGTGTTTCATGCAGACCGGGTACAACAAGCTCTGTGATTG
GTGGTTCGCTTGGGGTGATCATGTATGAGATGCTCATCGGCTACCCACCTTCTGTTCTGA
GACCCCTCAAGAGACATATAAGAAGGTGATGAACTGGAAAGAACTTTGACTTTTCTCC
AGAAGTTCCCATCTCTGAGAAAGCCAAGGATCTAATTTTGAAGTTCTGCTGTGAATGGGA
ACATAGAATTGGAGCTCCTGGAGTTGAGGAAATAAAAAGTAACTCTTTTTTTGAAGGCGT
TGACTGGGAACATATCAGAGAGAGACCTGCTGCAATATCTATTGAAATCAAAGCATTGA
TGATACCTCAAACCTTCGATGAGTTTCCAGAATCTGATATTCTTAAGCCAACAGTGGCCAC
AAGTAATCATCTGAGACTGACTACAAGAACAAGACTGGGTCTTCATCAATTACACGTA
CAAGCGCTTTGAGGGCCTGACTGCAAGGGGGGCAATACCTTCTACATGAAAGCAGCAAA
ATAGTACTCTTGCCACGGAATCCTATGTGGAGCAGAGTTCTTTGTATAACATCATGCTTT
TCCTCTCACACTCTTGAAGAGCTTCCAAGAAGTTGATGGAACCCACCAATATGTCATAGT
AAAGTCTCCTGAAATGTGGTAGTAAGAGGATTTTCTTCCATAATGCATCTGAAAACTGT
AAACAAAGACAACCATTTCTACTACGTCGGCCATAAACAGCTATCCTGCTTTGGAAGAGA
AGCATCATGAGCCAATTTGATAGGTGTTTTAAAAATAAAGTGAAGTTTCTTAAGTTTCATC
AGAATGAAGGGGAAAAACAGCCATCATCCAACATTATTGAGATTGTCGTGTATAGTCATC
GAATATCAGCCAGTTTCTGTAATTTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTT
CCTTTATAGCTAAAAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCA
GCCAGGATTCTGGCTGAAGGAAATGATCCGCCACCCTGAGGGTGGTGATGGTAGTTTCTA
CCCATACCTCAGCCTCAGGCGAGTGGCTTATAGCCTCCATTATGTTGCACTTTATTTAT
GGTACTAAGATAAAGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAT
ACCCATGCTGCTTTTCTGAGTGTGATGGGGGTTACCAGCTTGATCCAAGTGTGCTCTTA
GAAGGCCAGAAAAGTCTTTGGGCATTGCCAAGAAATCCCGGATTATGTGGAACCCCTCA
CTTTCTCTTACGGCTGTACCAGAAAATCCCTAAGACAGATCTTGCCGTGGACTAGCAAT
ACCTGCAAGTGTGCAATGGGAACTCAATTTATTCTGGGAACCTAACGAGGAGAGCCC
AGGCCTAGGCAGGAGGCCTGGAACCTCTTGGCTAAGGTGCTGTTTCTGTTCTGCAAGG
TCTCCAGAACCCCTTTGGAATGGTGAAGGAACAGCCCAATAGAAGTACAGAGCCAGCT
GACAAGTCTTGTAAAGCTCACTCCTCAGTCTTGGCACAGCCATGTTTTGTCTTCTCTC
TTGGTATTTCTTCTCTCCCACTTTAGCCATTTTGCCTTGGAAATCATGATTACAATTTTT
TCCTTTGCAGATGCCTTCTGGGGGATACTCCTCCCCACCCTAAAGGGTCGCCTGCAACT
TAGGCGGATTGGGTCTCTGCTGTGGCGTTCTCTTTGAGAGACCCTCTGAATTTTAGC

FIGURE 1 (CONT'D)

ACAAAGTGCCTTCTGTTTTACAGCTGCCACCACCTTTAGAGGAATTTTCGTCAGAAAAATG
TGGAGGCTCCATATTAATGCATTATTTTTTAAAAAGTTTTGATAACTCTTAAAGCATCAT
TTGCACCTATGTGGGAACCTTGCCTGTTGCAAAGTATTGTGGCCGAGCTGCAGCTGGGAG
CCTGCTTTCTGCCAGTCTTGAGGTTCTGAAGATCAGCTTTGAAAGGAAAGTATGTCCTAG
CTTAGCCATTGAGAAGAGAAAAATGGAATATCAGAGTTACAGTTGTGAGTAACTACTT
TGGATTTTTAACCTCTTAGAGGAAGAAAAAGGTTAGGGAAGTGTCAACTCTGGATGAAGG
TGATGTGTTTTGCCTCTCAGTCTTTCATTATAGCCTGCTAGTGAAAAGGAAGTAAATGAG
ATTCTTTTGTGTGACTTTGTAGTCTCTTTGTATTACCAATAGTTGGGGTGTGACTCCT
GTGTGTTTTGCAAGAATGTGTGGTAAGCCTGGGTAAAGAGAAGGAACTGCGGTGTTGGGA
GAGTCTTTGTGTTGGGGAGTGGCAGGGGATGATTTGTTTCAGGGGAAAATGCCACATTT
TAACTTTTAACTTCTGAATAAACTGTGT

Gene 527. >ENST00000244751 cDNA sequence

GGGCAGATTTGATTTTTCCCGCAGCCCCGGGCGCCCCGAGCCGAAGCCCCGAGCCGAGGAGG
TGGCGCTCGCAGCCGCGTCTCAGCCCCGTCGCGCCGGCGCCAAGACCCAGGGAGAGGCG
GCGCAGCCCCGGGCGCTCGGGCTCCGCGCTGCCGGCGCCCCGCCACCCCCGCGCCAGCGC
CCCATCCGGCGCCTCCCGCTCCTCAGCCCCCTCTCCCTGTCTTCTGCATCCCCCTCTACCT
CTGCCCCACAGACGCGCGTCCCTCTCCTGGTGGCCCCCTCTCCACGACTCCGCGTTTTCCCTCC
CGGTGCCCTCTCCCCGAGCCCCCTCTCCCCGCGCCCCCTCTCTGCCTTCCCCGCTGTGCCCC
CGCTCCCTGGGCTCCTTGGCCCTTCCCCACTGGGCCCCCTAGCCTCCTCGCGGCGTCAACCG
AGCCCCCTCCTCGATCCGCGGCCCCCGCTCCCTCCGCCCCCTTCCCTCTCTCACTTCCCA
CGCCCCCTCTTCGCGCTCCTCTCTCCTCCCCCTTGCCGCCCAGCCAGGCTCTGGAGTTGG
GGGAGAGCCCAGGGCTCCAGTCGCTCCGGAGGAGGCGTGAATCGCGCAGGGATTGACTAA
TTTGGGGTGGGGGGTGCAGGTGGGCGATGGAGCAGCCTGAGGACATGGCGTCTGAGCGA
GTTTCGACTCCTTGGCGGGCAGCATCCCGGCCACCAAGGTGGAGATCACCGTGTCTGTCAG
GAACCTCCTGGACAAAGACATGTTTTTCCAAGTCCGACCCACTGTGCGTCATGTATACCCA
AGGGATGGAGAACAAGCAGTGGCGGGAGTTTGGGCGCACCGAAGTCATCGACAACACGCT
CAATCCTGACTTCGTGCGCAAGTTCATTGTGGATTACTTTTTCGAGGAGAAGCAGAACCT
CCGTTTTGATCTATACGACGTTGACTCTAAGAGTCTGATTTATCCAAACACGATTTCT
GGGCCAGGCCTTCTGCACCCCTTGGAGAGATTGTGGGGTCCCCCTGGGAGCCGCTGGAAAA
GCCCCCTCAGATAGGCGCATTACAGCCTGAATTCAGGACGGGCAAACCCATGCCAGCTGT
GTCCAACGGTGGTGTCCCAGGAAAGAAATGTGGCACCATCATCCTGTCCGCTGAGGAGCT
CAGCAACTGTAGGGATGTGCCACCATGCAGTTCTGTGCCAACCAAGCTGGACAAGAAAGA
TTTCTTTGGGAAATCTGACCCCTTCTTGGTATTCTACAGAAGCAACGAGGATGGAACGTT
CACCATTTGCCACAAGACCGAGGTATGAAGAACACCCTAAATCCAGTCTGGCAAACCTTT
CTCCATTCCCGTGAGAGCCCTCTGCAACGGCGACTACGATCGGACCATCAAGGTGGAGGT
GTACGACTGGGATCGGGACGGCAGCCATGACTTCATTGGGGAGTTACCAACAGTTACCG
GGAGCTGGCCCGTGGGACAGGCAATTCAACATCTATGAGGTGGTAAACCCGAAAAAGAA
AATGAAGAAAAAGAAATACGTGAATTCTGGCAGTCAACCTGCTTTCTTTGCTGTGGA
GTCAGAGTGCACCTTCTTGACTACATCAAAGGAGGGACCCAGATCAACTTCACTGTGGC
CATTGATTTCACTGCCTCCAATGGGAACCCCTCACAGTCCACATCCCTGCACTACATGAG
CCCCTACCAGCTGAACGCCTACGCGCTGGCGCTGACTGCCGTGCGAGAGATCATCCAGCA
CTACGACAGTGACAAGATGTTCCCTGCCCTGGGCTTCGGGGCCAAGCTGCCCCCGGATGG
CAGAGTGTCCACGAGTTCCCACTGAATGGCAACCAGGAGAACCCCTCATGCTGTGGCAT
CGACGGCATCCTGGAGGCCTACCAACGACGCTGCGCACTGTGCAGCTGTACGGCCCCAC
CAACTTTGCCCCCGTGGTCAACACGTGGCCAGGAATGCAGCGGCCGTGCAGGATGGCTC
CCAGTACTCGGTGCTGCTCATTAATGATGGGGTCACTCGGACATGGCGCAGACCAA
GGAGGCCATTGTCAACGCTGCCAAGCTCCCCATGTCCATCATTATCGTCGGCGTGGGCCA
GGCAGAGTTCGACGCCATGGTGGAGCTGGATGGCGACGACGTGCGGATCTCCTCCCGGGG
GAAGCTGGCTGAACGCGACATCGTCCAGTTTGTACCTTCCGGGACTACGTGGACCGCAC
AGGCAACCACGTGCTGAGCATGGCCCCGCTGGCCGAGACGTGCTGGCAGAGATCCCTGA
CCAATGGTGTCTACATGAAGGCACAGGGCATTGCGCCGCGTCCCCACCCGACGACC
AACCACTCGCCCTCGCAGTCCCCAGCCGACGCCCCCTGCGTCCCCCTGCACACGCA
CATCTGAACCTGGTCTCAGCAGGACGGTGGCTGGGGCCTGGGAGAGGCCAGGTGAATGGG
AGGCCAGGGCCCCAGACTCCCCGAAGTTGGCCTGCCCGGCCTTTGGGACATCTGTGTGCC

FIGURE 1 (CONT'D)

TGGGAGGCTGCCAGGGGGTGGGGCTTCTGAAGACCCCTCCTCAATTTCTTGGCCTCACTT
 ATTGCCCAAACCCAGGGAGTTAGGGGGGTACGGGTGAAAGAGGGGTACACAGGGACCCAG
 CCCTTCTCTTCTTCCCCAATACCTGGCTCTAACCAGCCAGGAAGGTGTAAACAATAAGG
 GTGATTGGGGTCCCTGTGCGCCACCCCGGCAATCCTATTTGCTTACCTGTCAACCTGAA
 GCCTGGGCTTGGCCTCCTCCAGCCCCCATCTCCGTCCCATCCTCCCATGGTGTCTACTC
 CTGTCCCTGAGCCCCGCTGTGGTCTATCCTGTGCCCCGATTTCAGTGAACCCCATGAA
 GCTGATGGGTTTGCAGGAAGGCCTGAACATGTGCACCTCCAGGGACACTGGATGCGCT
 GGGAGCCCCGGGGACCCCATGGGGTGCTGTAATCATGGACCGTAGGCCATGTGATGGGCC
 TGAAGTGGAGGCTGCTCAGCACAGAGCCCTTTCTGGTGCCTCTCGAACTCAGTACGATGC
 AAGTTCTAGACACACAGATGGCCTGTGGAGGCCTCTCCCTGGTGTGGGGCCACAGGTA
 TCCATGGTTGACTCCTGGCTTCAGGAATCCCTTCCCTCCCTCCAGAGGCTTCCAGGGCCC
 TCGGTGCCCACGCCTCTGCCCATCTGGAGGCCTGAGTAAGGAGTGGCTCAGCCCCACGTT
 CCCACACTGCTCCTGCTCTTTGCCCTGTATCCCATGAGGCTAGGAGACAGGAGTCTGGG
 TTTGAGCCCTGCCTCCCCCACTGCCTAATGTGGGAACCAAGCAAGGCCCTTCTACCTT
 TTGGGCCTCAGTTTCCATGTCTGTACCACAAGAGGGTTGACCAGATGGCCCCAGGTTTTTC
 CTTTAGGTCTGACATCCTGAGGGTCATTTCATCCCATGCCCAGTTCCCCCATCCTACTCC
 TAACAGATGTGACCCTACTTGAGGCCGCTTGGCTTTTGGGTCAACCTGTCTCATCCCAT
 CACCCCAAACATACCTAGTCTTTCAGCCTGGGGCTCTGGCATCTGAGCCCGAGCTCCTG
 CCCCTGCTGTGGGAAAGGTGGGGAAGAAGGGGATCTCCCTCCCGGGCCACCCAGCTGCC
 CAGCCTTTGCCCACTCGGGGAGCAGATCATGCATGCCAATCCCTGTTGCCGCATGGAGCT
 CCTCAGCCCACTGACCTCTCCGTGCCTGGTGCAGGCCAGGCCCCCGTCTTCCGCCTGCCT
 CTGCTTCCCGTCATGCATGGTGGTGGTGTCTTCTACGGTGTCTGGTTCTGTGCCCGTCTC
 TGAGACAGTCTCTGTGTGGAATTTGCCTTAAACTGAAGTAAATTTGGTTCTTTTAGT

Gene 528. >ENST0000244367 cDNA sequence

AAGTTTGCATTTTCTCTGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCAGCTTCC
 CGGCATTGGAAGAAGGGACCGTCCTCTTCTTGTCTTGGCCACCCAAATCCTGGTATCGA
 AAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCTAATCGACGCCGGA
 AGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGGCGGCAATTCCCCCAG
 ATTCCTGGCAGCCACCCAACGTTTACTTGAGAGACCAGCATGGGAATCATTGTGCTGGAGC
 TGTACTGGAAGCATGCTCCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTT
 ACTACAATGGCACAAAATTCACAGAATTATCAAAGACTTCATGATCCAAGGAGGTGACC
 CAACAGGGACAGGTGAGGTGGTGCATCTATCTATGGCAAACAGTTTGAAGATGAACTTC
 ATCCAGACTTGAAATTCACGGGGGCTGGAATTTCTCGCAATGGCCAATGCGGGGCCAGATA
 CCAATGGCAGCCAGTTCTTTGTGACCCCTCGCCCCACCCAGTGGCTTGACGGCAAACACA
 CCATTTTTTGGCCGAGTGTGTGAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAA
 CAAACTCCCAGGACCGCCCTGTGGACGACGTGAAGATCATTAAAGGCATACCCCTTCTGGGT
 AGACTTGCTACCCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAACCAGCTTCTAGAT
 GACATAGAATGACATGTAATGCTAAATTCATTTTGGCTTTGCAAGTCATGAAGCTTAGGA
 GGCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTTCT
 CTTCCCCCAGTGCCTAGGTTGCCAGAGCATTTCACAAAATGCCCTGTTTATCAATAGGT
 GACTACTTACTACACATGAACCATAATGCTGCTTCTTGTGCATGTCTGCTCTGATATACG
 TCGAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAACCAAACCTTCTTCCT
 AAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCC
 AAACCAAGTAGTGTCTGTGAGCCCTCTTAACTCTGTGCACGCCCTATTTTCAGTCTTTTAC
 ATTTGTTCTTCTAGGGAATGTATGCATCTCTATATATATTTTCCCTCTCAAAACAGAAC
 ATCAACAGTGTGTTTCTGACACTTCAGACATCCACGCAAAGCCACATTGAATTTTTGC
 CAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAAGTGGGGAATAATAA
 TAATGTATAATAATCAAGAAATTAGTTTATTAAAAGGAAGCAGAAGCATTGACCATTTTT
 TCCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGA
 AGTAGTACTCTCAGAAAGGAGAAGCGCCACTCAAGTCTTTTAAACCAAGACTTTAGAGA
 AATTAGGTCCAAGATTTTTATATGTTTCAAGTTGTTTATGTATAAAAAATACTTTCTGGATT
 TTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATACATAGAACTTCCA
 CAATAAAATGCCATTGATGGTTG

Gene 529. >ENST0000229824 cDNA sequence

FIGURE 1 (CONT'D)

GATTACCTCTTCCATGTCATCTTTCTGGGAGACTCCAACGTGGGCAAAACATCCTTCCTG
CACCTGCTGCACCAGAATTCTTTCGCCACCGGATTGACAGCTACCGTGGGAGTAGATTTT
CGGGTCAAAACCTTGCTGGTGGACAACAAGTGCTTTGTGCTGCAGCTCTGGGACACAGCT
GGCCAAGAGAGGTACCACAGTATGACGCGACAGCTGCTCCGCAAGGCTGACGGGGTGGTG
CTCATGTACGACATCACCTCCCAGGAGAGCTTTGCCACGTGCGCTACTGGCTAGACTGT
CTCCAGGATGCAGGGTCGGATGGGGTGGTATCCTTCTCCTGGGAAACAAGATGGACTGT
GAGGAGGAACGGCAAGTGTCCGTGGAAGCTGGGCAGCAACTGGCCAGGAACTGGGGGTC
TATTTTGGGAGTGAGTGCCGCTTGGGTCAACATCCTGGAGCCTGTAGTAAACCTG
GCCAGGTAA

Gene 530. >ENST00000211287 cDNA sequence

GCGGCGCGGGGCGGCGCAGCGGGGTCGGGCGCTGGGAGCCGTTGGGCCGCGAACGC
AGCCGCCACGCTGGGGCCGCCGAGATCGGGTGCCCGGGATGAGCCTCATCCGAAAAAGG
GCTTCTACAAGCAGGACGTCAACAAGACAGCCTGGGAGCTGCCAAGACCTACGTGTCCC
CGACGCACGTCCGCAGCGGGCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGTGAG
GGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCTTTTCAGTCCGAGATCTTCGCCAAGC
GCGCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGCTCC
TGGATGTCTTACCCACAGCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGATGC
CCTTCATGCAGACGGATCTGCAGAAGATCATGGGGATGGAGTTTCAGTGAGGAGAAGATCC
AGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCTGCTGGGGTCGTGC
ACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGG
ATTTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGT
ACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCAGACAGTGGACATCTGGT
CTGTGGGCTGTATCATGGCAGAGATGCTGACAGGGAAAACCTCTGTTCAAGGGGAAAGATT
ACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGCACGGAGTTTGTGC
AGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGA
AGGATTTCACTCAGCTGTTCCACGGGCCAGCCCCAGGCTGCGGACCTGCTGGAGAAGA
TGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCGCAGGCCCTCACCCATCCCTTCT
TTGAACCTTCCGGGACCTGAGGAAGAGACGGAGGCCAGCAGCCGTTTGATGATTCTT
TAGAACACGAGAAACTCACAGTGGATGAATGGAAGCAGCACATCTACAAGGAGATTGTGA
ACTTCAGCCCCATTGCCCGGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGGGAC
TCATCTTGCATGGCACCGCCGGCCAGACACTGCCCAAGGACAGTATTTGTCACTACCAA
ACTCAGCCCTTCTTGAATACAGCCTTTCAAGCAGAGGACAGAAGGGTCCTTCTCCTTAT
GTGGGAAATGGGCCTAGTAGATGCAGAATTCAAAGATGTGGTTGGGAGAACTAGCTCT
GATCCTAACAGGCCACGTTAAACTGCCCATCTGGAGAATCGCCTGCAGGTGGGGCCCTTT
CCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCTATGGCAGTGA
TGCTGTGTTGGTTTCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAAC
AGCAGAACTTGATTCCCTTACAGTTCTGGAGGCTGGAAATCTGGGATGGAGGTGTTGGCA
GGGCTGTGGTCCCTTTGAAGGCTCTGGGGAAGAATCCTTCTTGGCTCTTTTTAGCTTGT
GGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCACTCCAGTCTCTGT
CTCTTCTGTTCTCTCCTCTTTTAAACAACAGTCATTGGATTTAGGGCCACCTAATCCTG
TGTGATCTTATCTTGATCCTTATTAATTAACCTGCAAATACTCTAGTTCCAAATAAAGT
CACATTCTCAGGTTCCAGGTGGACATGA

Gene 531. >ENST00000229795 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGC
AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGCAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTGCAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGCGGGAGTCTGCGGGGTGCGGGCAGCCGCACCT
GCGCGGGCGACACGCGCAAGGTCCCCGCCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGCCACGTTCTACCGGCAGGAGCTGAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACCAGAACCTGTCTCCAGTGGGCTCTGGCGCCTATGGCTCTGTGTGTG
CTGCTTTTGACACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTC
AGTCCATCATTATGCGAAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA

FIGURE 1 (CONT'D)

ATGATGTGTATCTGGTGACCCATCTCATGGGGGCAGATCTGAACAACATTGTGAAATGTC
 AGAAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGT
 ATATACATTACAGCTGACATAATTACAGGGACCTAAACCTAGTAATCTAGCTGTGAATG
 AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
 CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
 ACAACCAGACAGTTGATATTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
 GAACATTGTTTTCTGGTACAGACCATATTAACCAGCTTCAGCAGATTATGCGTCTGACAG
 GAACACCCCCGCTTATCTCATTAAACAGGATGCCAAGCCATGAGGCAAGAACTATATTC
 AGTCTTTGACTCAGATGCCGAAGATGAACTTTGCGAATGTATTTATTGGTGCCAATCCCC
 TGGCTGTGCACTTGCTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGG
 CCAAGCCCTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACCAGTGG
 CCGATCCTTATGATCAGTCCTTTGAAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCC
 TGACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACCAAGAAGAGATGGAGT
 CCTGAGCACCTGGTTTCTGTTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTCA
 CGGGAACCTCTCAAATATTATTCAAGTGCCTCTTGTTCAGAGATTTCTCCATGGTGGA
 AGGGGTGTGCGTGCCTGTGCGTGCCTGTAGTGTGTGTGCATGTGTGTGTCTGTCTTTG
 TGGGAGGGTAAGACAATATGAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGA
 TGCTCCAGGGCAGCCTCCACCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAG
 CTGCTGTCTTTTTAGGAATATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCAATC
 CCGGTATGCTTTTTGCCACTTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAG
 ACTTGACAACATCCACAGTGGCACGGAGAGAAGGCCCATACCTTCTGTTGCTTCAGAC
 CTGACACCGTCCCTCAGTGATACGTACAGCCAAAAGGACCAACTGGCTTCTGTGCACTA
 GCCTGTGATTAACCTTGCTTAGTATGGTTCTCAGATCTTGACAGTATATTTGAAACTGTAA
 ATATGTTTGTGCCTTAAAAGGAGAGAAGAAAGTGTAGATAGTTAAAAGACTGCAGCTGCT
 GAAGTTCTGAGCCGGGCAAGTCGAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCGGAGTA
 ATCAGGCAGCCTTCATAGGCGGTATGTGTGCATGTGAGCACATGCGTATATGTGCGTCT
 CTCTTTCTCCCTCACCCCCAGGTGTTGCCATTTCTCTGCTTACCCTTCACCTTTGGTGCA
 GAGGTTTTCTTGAATATCTGCCCCAGTAGTCAGAAGCAGGTTCTTGATGTATGTACTTCC
 TGTGTACTCTTTATTTCTAGCAGAGTGAGGATGTGTTTTGCACGTCTTGCTATTTGAGCA
 TGCACAGCTGCTTGTCTGCTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTG
 AAGACTTCTTGGGTAGTTTAGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATAT
 CACCTCTCTTCAGCCCCTAGTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTT
 TTGATGTGAAAATCATGAAAAGAGGAACAGGTGGATGTATAGCATTTTTTATTTCATGCCAT
 CTGTTTTCAACCAACTATTTTTTGAGGAATTATCATGGGAAAAGACCAGGGCTTTTCCCAG
 GAATATCCCAAACCTTCGGAAACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAA
 ATGCTGAAAATCAAAGTAAAAAATTAAAGCCCATAAGGCCAGAAACTCCTTTTGCTGTCT
 TTCTCTAAATATGATTACTTTAAAATAAAAAAGTAACAAGGTGTCTTTTCCACTCCTATG
 GAAAAGGGTCTTCTTGGCAGCTTAACATTGACTTCTTGGTTTTGGGGAGAAATAAATTTTG
 TTTCAGAATTTTGTATATTGTAGGAATCCTTTGAGAATGTGATTCTTTTGTATGGGGAGA
 AAGGGCAAATTATTTTAATATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGG
 GGTGGAGAAGTGTGCTTTTTATAACTTGCTGAATTTTCAGGCATTTTGTCTACATGAGGA
 CTCATATATTTAAGCCTTTTTGTGTAATAAGAAAGTATAAAGTCACTTCAGTGTTGGCTG
 TGTGACAGAATCTTGTATTTGGGCCAAGGTGTTTCCATTTCTCAATCAGTGACGTGATAC
 ATGTACTCCAGAGGGACAGGGTGGACCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGC
 AGACTGATGGCGATTCCCTCTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTT
 AAAGTAAAGGCCTCATCTCCTTTATTGTCAGTTCAAATCCTCACCATCCACAGCAAGATGA
 ATTTTATCAGCCATGTTTGGTTGTAAATGCTCGTGTGATTTCTACAGAAATACTGCTCT
 GAATATTTTGTAAATAAAGGTCTTTGCACATGTGACCACATACGTGTTAGGAGGCTGCATG
 CTCTGGAAGCCTGGACTCTAAGCTGGAGCTCTTGGAAGAGCTCTTCGGTTTCTGAGCATA
 ATGCTCCCATCTCCTGATTTCTCTGAACAGAAAAAAGAGAGAATGAGGGAAATTGCT
 ATTTTATTTGTATTTCATGAACTTGGCTGTAATCAGTTATGCCGTATAGGATGTGAGACAA
 TACCACTGGTTAAAATAAAGCCTATTTTTCAAATTT

Gene 532. >ENST00000310795 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGC

FIGURE 1 (CONT'D)

AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGCAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTCGAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGGGAGTCTGCGGGGTGCGGCGAGCCGCACCT
GCGCGGGCGACCAGCGCAAGGTCCCCGCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGCCCCAGTTCTACCGGCAGGAGCTGAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACCAGAACCTGTCTCCAGTGGGCTCTGGCGCTATGGCTCTGTGTGTG
CTGCTTTTGACACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTC
AGTCCATCATTTCATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA
ATGATGTGTATCTGGTGACCCATCTCATGGGGGAGATCTGAACAACATTGTGAAATGTC
AGAAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGT
ATATACATTTCAGCTGACATAATTACAGGGACCTAAACCTAGTAATCTAGCTGTGAATG
AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
ACAACCAGACAGTTGATATTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
GAACATTGTTTTCTGGTACAGACCATATTGATCAGTTGAAGCTCATTTTAAGACTCGTTG
GAACCCAGGGGCTGAGCTTTTGAAGAAAATCTCCTCAGAGTCTGCAAGAACTATATTTC
AGTCTTTGACTCAGATGCCGAAGATGAACTTTGCGAATGTATTTATTGGTGCCAATCCCC
TGGCTGTGCACTTGCTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGG
CCCAAGCCCTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACCAAGTGG
CCGATCCTTATGATCAGTCCTTTGAAAGCAGGGACCTCCTTATAGATGAGTGAAAAGCC
TGACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACCAAGAAGAGATGGAGT
CCTGAGCACCTGGTTTTCTGTTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTCA
CGGGAACCTCTCAAATATTATTCAAGTGCCTCTTGTTGCAGAGATTTCTCCATGGTGGA
AGGGGGTGTGCGTGCGTGCGTGCGTGTTAGTGTGTGTGCATGTGTGTGTCTGTCTTTG
TGGGAGGGTAAGACAATATGAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGA
TGCTCCAGGGCAGCCTCCACCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAG
CTGCTGTCTTTTTAGGAATATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCAATC
CCGGTCATGCTTTTGCCACTTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAG
ACTTGACAACATCCCAAGTGGCACGGAGAGAAGGCCCATACCTTCTGGTTGCTTCAGAC
CTGACACCGTCCCTCAGTGATACGTACAGCCAAAAGGACCAACTGGCTTCTGTGCACTA
GCCTGTGATTAACCTTGCTTAGTATGGTTCTCAGATCTTGACAGTATATTTGAACTGTAA
ATATGTTTTGTGCCTTAAAAGGAGAGAAGAAAGTGTAGATAGTTAAAAGACTGCAGCTGCT
GAAGTTCTGAGCCGGGCAAGTCGAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCCGAGTA
ATCAGGCAGCCTTCATAGGCGGTTCATGTGTGCATGTGAGCACATGCGTATATGTGCGTCT
CTCTTTCTCCCTCACCCCCAGGTGTTGCCATTTCTCTGCTTACCCTTCACCTTTGGTGCA
GAGGTTTTCTTGAATATCTGCCCCAGTAGTCAGAAGCAGGTTCTTGATGTGATGTAATTC
TGTGTACTCTTTATTTCTAGCAGAGTGAGGATGTGTTTTGCACGTCTTGCTATTTGAGCA
TGCACAGCTGCTTGTCTGCTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTG
AAGACTTCTTGGGTAGTTTAGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATAT
CACCTCTCTTCAGCCCCCTAGTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTT
TTGATGTGAAAATCATGAAAAGAGGAACAGGTGGATGTATAGCATTTTTATTTCATGCCAT
CTGTTTTCAACCAACTATTTTTGAGGAATTATCATGGGAAAAGACCAGGGCTTTTCCCAG
GAATATCCCAACTTCGGAAACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAA
ATGCTGAAAATCAAAGTAAAAAATTAAAGCCCATAAGGCCAGAACTCCTTTTGCTGTCT
TTCTCTAAATATGATTACTTTAAAAATAAAAAAGTAACAAGGTGTCTTTTCCACTCCTATG
GAAAAGGGTCTTCTTGGCAGCTTAACATTGACTTCTTGGTTTTGGGGAGAAATAAATTTTG
TTTCAGAATTTTGTATATTGTAGGAATCCTTTGAGAATGTGATTCTTTTGTGATGGGGAGA
AAGGGCAAATTTATTTAATATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGG
GGTGGAGAAGTGTGTTTTTATAACTTGCTGAATTTTCAAGCATTTTGTCTACATGAGGA
CTCATATATTTAAGCCTTTTGTGTAATAAGAAAGTATAAAGTCACTTCAGTGTTGGCTG
TGTGACAGAATCTTGTATTTGGGCCAAGGTGTTTCCATTTCTCAATCAGTGACGTGATAC
ATGTACTCCAGAGGGACAGGGTGGACCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGC

FIGURE 1 (CONT'D)

AGACTGATGGCGATTCCCTCTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTT
AAAGTAAAGGCCTCATCTCCTTTATTGTCAGTTCAAATCCTCACCATCCACAGCAAGATGA
ATTTTATCAGCCATGTTTGGTTGTAAATGCTCGTGTGATTTCTACAGAAATACTGCTCT
GAATATTTTGTAAATAAAGGTCTTTGCACATGTGACCACATACGTGTTAGGAGGCTGCATG
CTCTGGAAGCCTGGACTCTAAGCTGGAGCTCTTGGAAGAGCTCTTCGGTTTCTGAGCATA
ATGCTCCCATCTCCTGATTTCTCTGAACAGAAAACAAAAGAGAGAATGAGGGAAATTGCT
ATTTTATTTGTATTATGAACCTGGCTGTAATCAGTTATGCCGTATAGGATGTCAGACAA
TACCACTGGTTAAAATAAAGCCTATTTTTCAAATTT

Gene 533. >ENST00000229794 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGC
AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTCGCAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGGGAGTCTGCGGGGTGCGGCAGCCGCACCT
GCGCGGGCGACAGCGCAAGGTCCCCGCCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGCCACGTTCTACCGGCAGGAGCTGAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACAGAACCTGTCTCCAGTGGGCTCTGGCGCTATGGCTCTGTGTGTG
CTGCTTTTGCACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTC
AGTCCATCATTATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA
ATGATGTGTATCTGGTGACCCATCTCATGGGGCAGATCTGAACAACATTGTGAAATGTC
AGAAGCTTACAGATGACCATGTTTCACTTCTATCTACCAAATTCTCCGAGGTCTAAAGT
ATATACATTAGCTGACATAATTACAGGGACCTAAAACCTAGTAATCTAGCTGTGAATG
AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
ACAACCAGACAGTTGATATTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
GAACATTGTTTCTGGTACAGACCATATTGATCAGTTGAAGCTCATTTTAAGACTCGTTG
GAACCCCGGGGCTGAGCTTTTGAAGAAAATCTCCTCAGAGTCTCTGTGACTTGTGGA
GAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGGCCAAGCCCTTGACATGC
CTACTTTGCTCAGTACCACGATCCTGATGATGAACCAAGTGGCCGATCCTTATGATCAGTC
CTTTGAAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCCTGACCTATGATGAAGTCAT
CAGCTTTGTGCCACCAACCCCTTGACCAAGAAGAGATGGAGTCTGAGCACCTGGTTTTCTG
TTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTACGGGAACTCTCCAAATATT
ATTCAAGTGCCTCTTGTGTCAGAGATTTCTCCATGGTGGGAGGGGGTGTGCGTGCCTGT
GCGTGCGTGTAGTGTGTGTGCATGTGTGTGTCTGTCTTTGTGGGAGGGTAAGACAATAT
GAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGATGCTCCAGGGCAGCCTCCA
CCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAGCTGCTGTCCTTTTAGGAAT
ATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCAATCCCGGTATGCTTTTGCCAC
TTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAGACTTGACAACATCCACAG
TGGCACGGAGAGAAGGCCCATACCTTCTGGTTGCTTCAGACCTGACACCGTCCCTCAGTG
ATACGTACAGCCAAAAGGACCAACTGGCTTCTGTGCACTAGCCTGTGATTAACTTGCTT
AGTATGGTTCTCAGATCTTGACAGTATATTTGAACTGTAAATATGTTTGTGCCTTAAAA
GGAGAGAAGAAAGTGTAGATAGTTAAAGACTGCAGCTGCTGAAGTTCTGAGCCGGGCAA
GTCGAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCGGAGTAATCAGGCAGCCTTCATAGG
CGGTCATGTGTGCATGTGAGCACATGCGTATATGTGCGTCTCTCTTTCTCCCTCACCCCC
AGGTGTTGCCATTTCTCTGCTTACCCTTCACCTTTGGTGCAGAGGTTTCTTGAATATCTG
CCCCAGTAGTCAGAAGCAGGTTCTTGATGTCATGTACTTCTGTGTAATCTTTATTTCTA
GCAGAGTGAGGATGTGTTTTGCACGTCTTGCTATTTGAGCATGCACAGCTGCTTGTCTG
CTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTGAAGACTTCTTGGGTAGTTT
AGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATATCACCTCTCTTCAGCCCTTA
GTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTTTTGATGTGAAAATCATGAA
AAGAGGAACAGGTGGATGTATAGCATTATTTATTATGTCATCTGTTTTCAACCAACTATT
TTTGAGGAATTATCATGGGAAAAGACAGGGCTTTTCCAGGAATATCCCAAACTTCGGA
AACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAAATGCTGAAAATCAAAGTAA

FIGURE 1 (CONT'D)

AAAATTAAAGCCCATAAAGCCAGAACTCCTTTTGCTGTCTTTCTCTAAATATGATTACT
TTAAATAAAAAAGTAACAAGGTGTCTTTTCCACTCCTATGGAAAAGGGTCTTCTTGGA
GCTTAACATTGACTTCTTGGTTTGGGGAGAAATAAATTTTGTTTCAGAATTTTGTATATT
GTAGGAATCCTTTGAGAATGTGATTCTTTTGATGGGGAGAAAGGGCAAATTATTTTAAT
ATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGGGGTGGAGAAGTGTCTGTTTT
CATAACTTGCTGAATTTTCAAGGCATTTTGTCTACATGAGGACTCATATATTTAAGCCTTT
TGTGTAATAAGAAAGTATAAAGTCACTTCCAGTGTTGGCTGTGTGACAGAATCTTGTATT
TGGGCCAAGGTGTTTCCATTTCTCAATCAGTGCAGTGATACATGTACTCCAGAGGGACAG
GGTGGACCCCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGCAGACTGATGGCGATTCCCT
CTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTTAAAGTAAAGGCCTCATCTC
CTTTATTGCAAGTCAAATCCTCACCATCCACAGCAAGATGAATTTTATCAGCCATGTTTG
GTTGTAAATGCTCGTGTGATTCTCTACAGAAATACTGCTCTGAATATTTTGTAAATAAGG
TCTTTGCACATGTGACCACATACGTGTTAGGAGGCTGCATGCTCTGGAAGCCTGGACTCT
AAGCTGGAGCTCTTGAAGAGCTCTTCGGTTTCTGAGCATAATGCTCCCATCTCCTGATT
TCTCTGAACAGAAAACAAAGAGAGAATGAGGGAAATTGCTATTTTATTTGTATTTCATGA
ACTTGGCTGTAATCAGTTATGCCGTATAGGATGTGACACAATACCACTGGTTAAATAAA
GCCTATTTTTTCAAATTT

Gene 534. >ENST00000326284 cDNA sequence

AGGGCCAAGGAGCGGCCCCCGCGCGCGCGGCCCCGCCAGCACCTCTCCGTCCCCGGGCGCG
CACGGCCGGCGCGGCGGCCCAGAAGGGAAGAGCTCGTTCGCGCAGCCCCGGCCCGCACCCC
CGTCTCTGGAGCTCCAGCCGCTCGCCCTCCAAATCTCGCTCGCGCTCTGCGGAGAAGCGG
CCCCACAGCCCCAGCCGCTCGCCGCTCGCCCAAGAAGCCCTCAGCCGGGACAAGGACGGC
GAGGGCCGCGCAAGGCACTCTGAGGCCGAGGCCACCCGCGCCCGGCGCCGCTCCCGCAGC
TACTCGCCCATCCGCAAGCGGCGCCGGGACTCGCCAAGCTTCATGGAGCCGCGGCGCATC
ACCAGCGCCGCAAGCGTCTTATTCATACTACCGGCCAGCCCCCTCTTCCTCCTCCAGCT
GCTTGAGCAGCGACTACTCGACCCGGAGCCACAGCCGAGCCCCAGCCCCGGCCACAGCC
ACGGGAGCTACAGCAGTTCGAGCCATGGGACCCGAGCCGGACACGCAGCCCCCTCGAGGA
CCCCCAGTCCCAGCTACACAGCCGGAGCAGCTCTGAGAGCGGGGGCTTCTGAGCCCAGA
CAGACTCAGCTTGGTGCCCCCTGGCACTGGGAGAGGCGAGGGGCGGGCCCCAGGACCCC
AGTGGGGAGGGGGCTATATCTCCTTGCCCCCAAGGTACAAAGAGGTCTCAGGGCCAGTG
CACGGGCAGATGGGACCGGGGAAGACTTTGAGGGTGGGCATCCAGTGGACAAGGAGAAGC
CAGATGTGCTGCTTCTACGGGTGTCTCTCCCCACCTCCTGTCCACCCACTGTGCCCGGGG
AACAAAGAGCCGTTACGAACACAGGAATCTCCCCATCCCCCTTCTGTCTGATGCCAACTC
ACCAGGCTTGGGACTGCTGCCGGTGGATGGTACCAGAGTCCATGATCTGCTCTGTCACTT
CACCTTAGCTCAGTGCAGCCAGGGACACCTTGCAAGGTGCCAGCCCTGGGAGCCCCCTCTT
CCGCACTACACAGCTCCCTCCACTCCTCTCTTATCACTGGGCAGACGAGGAGGTGGTACA
GCACATGGGTTTGGAGCTAGACAGAAGGAAGAAGCAGCCTAACCCCTTGGTGACCCCCATC
CAAGCTGGGGAGCTGCATCCTTTTGAGCTGGCTGCAGGAGGACCCCTGGCTGAGGGCTGGT
GGCTGGCCCCACAGCCTCCCCCAAGCTCCTCCACTGACCCAGGAGTGCCCAGACGGGTGG
CCCCCAAATCCCAGCCTGGGGAGCTAGGCACCTCACTCTTGGTCTGACCTCTCCAGGCC
AGGCTCTCCTCACCCCATGCCCTGGGCCAAGGTCTTACCAGCCATGACTACTGCATGACA
AGAGGTGGGGGTACAGACCTCAGGTACATTTGACCCTGAGGTAAAAGGGGTTCAGGTTC
AAGAGGTGGGAGAGGAAAGGGGTAGATGGGAGGTGGAATCTGTAGGAAAGAGAAAAAGCA
AAGTCGTTCACTGACTGAGTAGCCCCCAGGGAGTGGAGACGGGTCCCTGGGGAGGGAGCA
GCTGACAGGTGAGCAGTCCCCCAGCCCCACCCAAGAGGAGGGCAGCGTGTGCCTGTGGT
CTGGGACGTGGGCTGGATGGCAGCCAGGGTCAAGGCATAGGATAACATGTGCTTTGGA
CCTGACAAGGGAGTACCTTGGGGGTCTGATGGGGTCAAGCCAGCCGAGCCTCTGTAGAG
ATGGAGGCTACAGCCCTCAGAAGGGAGGGGAGGAAAGAGACTGAGGGCCCTGGCCTGGGG
CGTCGATGGGGAAGCGGTGGCCCCAGTCTCTTCTGCTGCTCCAGCCCCCTCCTCCTG
GGGCCCTCAGGGATCTCATGAAGTCTTCTTGGCCCCAACAGGCAGATGCCCCGGGCTCC
AGTGGGGGGAGGGGTCTGGGGTCTGGTCCGGGTTCCTCGCTTTCTCTATGTCCCCCTCC
CTCTTTCTCCGAGTGCAGATAAAATTGGAATCGAATAAAACCCCTTGGTGCCCCG

Gene 535. >ENST00000332057 cDNA sequence

GCGGCTCCATGCGTGAGGCTGGTGCCACGCGGTCTCCGGTGTGGCATTGTCTCAGGCC

FIGURE 1 (CONT'D)

TTCTCCTCAGTTCTGCACACAGCTACAAAACAAAAGAACAGTTGCCAGCACTTGGAAGAG
GATGTGCAAACCAAATGGAGGACAGATACTCCCTCTATGGACAAGATACTCATGGAAGAA
GTCAAGTTAGAAGAGCAGCTGAAGGAGGCTGTGGAAGAAGATAAGCAAGCACTGGCAGAT
ACTGAGGGCTCAGAGCAGAGCAGCCAAAAATTGGTGGAGGAGGGAAATATGTATAGCATT
CAGGGCTTCTGCAAGGACTCGTTAGAGGTTGCAGATGTTTTGGAGAAGGCAACACAGTGT
GTTCCAGAAGAAGAAATTAAAGACAATAACCTCACCTGAAGAACCTCTCTAGACTCACA
ATGAGTGAAGTCCAGATTAGGAAGTGTTCAGCAAGCACTGCCAAGATGAACTCTGTAC
AGCAAGTTCCACCCTTATGAGCGTGAGGGTCTTTTT

Gene 536. >ENST00000326382 cDNA sequence

GATGTCTCCACCGTGAACAACGGGGCGGCCAGCATGCAGTCCACACCCGACGCCGCGAA
CGGCTTCCCGCAGCCCAGCTCCTCCTCGGGGACCTGGCCGCGGGCGGAAGAGGAGCTGCG
CGCCGCGGAGCCGGGCTGGTGAAGCGCGCGCACCGCGAGATCCTGGACCACGAGCGCAA
GCGGCGGGTGGAGCTCAAGTGCATGGAGCTGCAGGAGATGATGTATTTCGGAGGAGGAGAT
TCGGCAGAAAGTGGGGACATTCCGGCAGATGCTGATGGAGAAGGAGGGAGTGCTCACCAG
GGAGGACCGGCCTGGGGGCCACATTGTGGCGGAGACCCCGCGGCTGACCGAGGGCGCTGA
GCCGGGCTGGAGTACGCGCCCTTTGACGATGACGACGGCCAGTGGACTGTGACTGCCC
GGCCTCCTGCTACCGCGGCCACCGCGGTACAGGACCAAGCATTGGTCTAGCAGCTCGGC
ATCGCCCCCTCCCAAGAAAAAGAAAAAGAAAGGCGGCCACCGGAGAAGCCGCAAAAA
GAGGAGACTGGAGTCCGAATGCAGCTGTGGGAGCTCCTCACCCCTCCGCAAGAAGAAGAA
GAGTGTGAAGAAGCATCGCCGAGACAGGTCTGATTCTGGGTCCCGGAGGAAGAGACGGCA
CAGATCTCGAAGCTCCAAGTGCAAAAGAAAAAGAGAAGAACAAAGAGAAGAAGAGGCCTCA
CACAGAGTCCCCAGGCCGGAGGTCTCATCGCCATAGCAGTGGCAGCTCCACAGCCCCCTC
CCTCTCCTCCCACTACAGTGATTCCAGATCTCCAGCAGGCTGAGCCCCAAGCACCGAGA
CGAAGGGCGAAAGACGGGCAGCCAGCGGTCCAGCGGAAGCCGGTCGCCTTCCCCGTGCGG
CGGCAGCGGATGGGGGTGCGCCAGCGGAACGGCGGCAGCGGCAGCGGAGCGGAGCGCA
CGGGGGCCGCCCCGGCTCGGCGCACAGCCCCCGCCGATAAGCCAGCTCGCCCTCGCCAG
GGTCCGTGACAAGGCGGCGGCCG

Gene 537. >ENST00000314526 cDNA sequence

ATGCTTGCCCCCTGCTCAGGTTGGGAGCTTGGCTGCTTCCGTCTCTGTCTCCGTGAGGTC
CGACTGTGGGCTGGCGCTGGGCGCTGGGCTTGGCTGGGCTTGCCAAGCCAGGCCGTACAGC
TCAGGTGGGAGCGAGCGCTGGCCCGGATCGGAGACTGAGGTCCCTCCGCTGGCCCGGCG
CGCCGAACCTCTGAAGGAGTGGACACTGCAGGTGAGCCCGTTTGGTTCGGCTGCGGGCGCGG
CTCCCGTGCCACCTGGCCGTGAGGCCCCCTGGAACCCCTCACCTACCCGGATGGCGACCGC
GTGCTGGTTCGCGGTGTGCGGCGTGGAGGGCGGCGTGCAGGGGCTGGACGGCCTGCAGGTG
AAGTACGACGAGGATCTGGAGGAGATGGCCATTGTGTCTGATACTATCCACCCCCAGGCG
TCCGTGGAGGTG

Gene 538. >ENST00000335370 cDNA sequence

CTGCCTCGTGTGTCTGTTGGCACACTCTCAAGAGTTTGAACGGATACAAGAATCTTTCA
TCTGGTGCCGAAACCCGGGAGGGGCTCCGGTCTTCGTCCCCCGTGGACCTACCCCTCCGC
CCCAGAAAGCAGGCCACAGCAGCCGGACAAAGGAAGCTCCTCAGCCTCCAGTTGCTTCTC
TGTGCATGCACATCAGTCACTGATCTCACCTACTGGGGCCCTGCAGGCCATGGGGCCACA
GCTCCACACAGAAGCCTCCTAGCAATCCACCTCCACCTGGTGCCTGCTTCAAGTGCGGCA
ATGAAGGCCACTGGCCACACAATGCCCAAACCCAGGTAAACCCACGAGGCCATGCCCCC
TCTGCGGAGGACCCCACTGGAAGTTGGAAGTGTGAGCGGCCCCCTGCAAGGACCACCCCAT
CCCTTCTGAGCCAATCAAACCTCCTACTCGGATCTCGTCAGCCTTGCCGCTGAAGACT
GATAGTGCCTTGGAACAGACACCCAGCAACTACCATCGCTTCATCTGAGCCAAGGGTAA

Gene 539. >ENST00000289473 cDNA sequence

AAGCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGG
AGGCCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAA
GCGCTTCGTACCCAGCCAGCACTATGTGTACATGTTCTGGTGAAATGGCAGGACCTGTC
GGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGA
AATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCC
AGCTCCCAAGTGGTTTTCAGGGCAGCGGGCCGCGGAGAACCGCCAGGGCACACTTACCGA
GTACTGCGGCACGCTCATGAGCCTGCCACCAAGATCTCCGCTGTCCCCACCTCCTCGA

FIGURE 1 (CONT'D)

CTTCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCC
 AGAGACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCAT
 CATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGC
 TCTGTCCACGGGGGACGTGGTGGAGGTGCTAGAGAAGAGCGAGAGCGGTTGGTGGTTCTG
 TCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCCTTCCTCGAGCCCCTGGACAGTCC
 TGACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTGCGCATCAAGGC
 CTACACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAT
 TCACAAGCTCCTGGACGGCTGGTGGGTATCAGGAAAGACGACGTACAGGCTACTTCCC
 GTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCG
 GGGGGCGCCGCCCGCAGGTGCTCCATCCGCAACGCGCACAGCATCCACCAGCGGTGCGG
 GAAGCGCTCAGCCAGGACGCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACG
 CCGCCAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGAC
 GCAGCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAA
 CCGCTGCAGCGAGAGACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGT
 CCCAGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTACATACGTGTTCTATAGAGCC
 TGGCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCA
 ATAAATGTTGCTTGGAGTG

Gene 540. >ENST00000324896 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGGCCACCGGTGCCCC
 CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCCGCCGCTGCCGCGGTACCCCGGCC
 TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
 GCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCCCTCGCCCCCTCTGCCT
 CCCGTCCGCTCGCCAGCTCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCG
 CGGCCCACACTCGCCTCCCCTCGGCACCCCCGCGGCCGAGCTGCCTGGAGGCGGCCGCA
 CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCCTC
 GGAGAGCAGGATGGTGGTGACATTCCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
 GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
 CGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
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 CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
 GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
 ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGGGCTTCCGGAAGGTGT
 TGCCTTTAAACACCCCCGAGAACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
 AGCAGGGATTTTATTTCATCATTAAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGG
 TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
 CATCAAAGTGAAACTGAACCCACAGAAGATTCTGGCATTTCCTTGAAATGGCAGCTGT
 GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
 TTCTGAAACTGATGATGTTGATGAAAAACAGCCCCTATCGAAGCCTTTGCAAGGAAGCCA
 CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
 ACATGTCCCTTCAGAAACAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGA
 TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGA
 ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
 CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
 AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCT
 TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACGGAATTCC
 TCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTGCTTTTGTGATTAAGAAACATGA
 GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
 AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
 ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
 ACACCCGAATGATCTGTACGTGAAGGACTGCCAGAAAACATTCTTTTCCGAAGTCCCTC
 ATGGTATGGAATCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
 TATTAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
 TACACAGTCAAAGAAGATTGGAATGTGAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
 GATTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAGTACCATA

FIGURE 1 (CONT'D)

TCCTGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCC
 CTTCCGAAGCCCTACCTGGTTTGGAAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAA
 TAAAATCAAGTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTGCCTCCTGGGAT
 GGCTAGTAAAATAAACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCCTGGGAG
 TAATTCAAAGGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCA
 AACCTCAGCTGTTTGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
 AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGT
 TGAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGT
 GCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
 TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
 CAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCCGAAATGTTTGAGACGGCGATTAAGGA
 GAGCACCTCCTCTAAGAGCCCTCCAGAAAAATAAATTATCACCCTAATGTTAATACTAC
 TGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCCAGATGATGATAATGA
 AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG
 TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAAT
 CACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGC
 CCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
 ATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAG
 TGAGTCAGAAGGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
 CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCAC
 GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGAC
 CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
 TTTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
 AGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA
 GCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTTATGTA
 CTCAGCAGAGCCTTGAGTTACGGTGTATTATTTTCCAATCAAGTGAAGATATCTCCTACTT
 CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCTGTGATAGTTTCAAGTTCT
 TTAGTTTTTTCTATTTGAAAAAAAATCATTAAATGATCCTTTGTTACGGCTCTCCT
 TAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCT
 CTCATGGTTTCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACA
 GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
 CTTTTACTTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG
 ATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
 TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTT
 CCTAGTTCTTCTTGTAAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
 AAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTT
 CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
 AGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAA
 ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
 AAAATCCATCCATGCCTTTTACACACTAA

Gene 541. >ENST00000324924 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTCGCCCC
 CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCCGCCCTGCCGCGGTACCCCGGCC
 TCTGCCTCTGTCCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
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 CCCGTCCGCTCGCCAGCTCCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCG
 CGGCCCCACACTCGCCTCCCCCTCGGCACCCCCCGCCCCGGAGCTGCCTGGAGGCGGCCGCA
 CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCCTC
 GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
 GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
 CGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
 AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
 CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
 GGACTATTTCTGCTTTTGTCTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC

FIGURE 1 (CONT'D)

ATATGAGAAGATGCTGCGAGACCAGTCCGGCTGTGGTAGTGCAGGGGCTTCCGGAAGGTGT
 TGCCTTTAAACACCCCGAGAACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
 AGCAGGGATTTTCATTTCATTAAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGG
 TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
 CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTGGAAATGGCAGCTGT
 GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGGAAGCCA
 CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
 ACATGTCCCTTCAGAAACAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGA
 TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGA
 ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
 CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
 AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCT
 TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCC
 TCGCCTGGAGAGGATATTACTTGCAGAAAGGAAGATTTCGTTTTGTGATTAAGAAACATGA
 GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
 AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
 ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
 ACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTTCCGAAGTCCCTC
 ATGGTATGGAATCCCAAGGCTGGAAGAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
 TATTAAGAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
 TACACCAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGA
 GATTTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAGTACCATA
 TCCTGTGTTTTGAATCAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCC
 CTTCCGAAGCCCTACCTGGTTTTGGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAA
 TAAAATCAAGTTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTGCCTCCTGGGAT
 GGCTAGTAAATAAACTAAAGCTTTGCAGTCCCCCAAAGACCACGAAGTCTTGGGAG
 TAATTCAAAGTTTCCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCA
 AACCTCAGCTGTTTGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
 AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAATCACGGACCTAAACAGAAAGT
 TGAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGT
 GCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
 TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
 CAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCCCGAAATGTTTGAGACGGCGATTAAAGGA
 GAGCACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATACCCCAATGTTAATACTAC
 TGCATCAGGTGTTGAAGACCTTAACATCATTACAGGTGACAATTCAGATGATGATAATGA
 AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAAGTGAATGACCTCTTTAG
 TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAT
 CACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGC
 CCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
 ATTACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAG
 TGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
 CACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCAC
 GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCCGGAC
 CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
 TTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
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 GCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTTATGTA
 CTCAGCAGAGCCTTGAGTTACGGTGTGTTTTTTCCAATCAAGTGAAGATATCTCCTACTT
 CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTCAGTTCT
 TTAGTTTTTCTATTTGAAAAAATAATCATTTAAATGATCCTTTGTTTACGGCTCTCCT
 TAATGACTGAGTGAACAGTTCTATCTGTATATTTGACTAAACCTTTTCTTAAGCTATCT
 CTCATGGTTCTATGTTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACA
 GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
 CTTTTACTTTTCGTCCAAATAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG

FIGURE 1 (CONT'D)

ATTGGGGCTAGCTCGATGACACTAAGGCCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTT
CCTAGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
AAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTT
CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
AGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAA
ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
AAAATCCATCCATGCCTTTTACACACTAA

Gene 542. >ENST00000324906 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCCCC
CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCCGCCCGCTGCGCGGTCACCCCGGCC
TCTGCCTCTGTCCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
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CCCGTCCGCTCGCCAGCTCCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCCGCG
CGGCCACACTCGCCTCCCCCTCGGCACCCCCGGCCCCGGAGCTGCCTGGAGGCGGCCGA
CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTC
GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
CGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGGGCTTCCGGAAGGTGT
TGCCTTTAAACACCCCCGAGAACTATGATCTTGAACCCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTTCATTCATCATTAAAGAGACCTTTTTTGTAGAGCCAAAGAAGCATGTAGGTGG
TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
CATCAAAGTGAAACTGAACCCACAGAAGATTCTGGCATTTCCTTGAAATGGCAGCTGT
GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
TTCTGAAACTGATGATGTTGATGAAAAACAGCCCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATGATGATTA
TTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACC
CGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCAT
CACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAGGAAATATGCTCAAGCCATAAA
AGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCTTTA
TGTAAGAAGGACTTCCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACGGAATTCCTCG
CCTGGAGAGGATATTACTTGCAAAGGAAAGGATTTCGTTTTGTGATTAAGAAACATGAGCT
TCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGA
ATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAATT
TGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACA
CCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTCATG
GTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGTTAT
TAAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAATAC
ACCAGTCAAAGAAGATTGGAATGTGAGAATTACCAAGCTACGGAAGCAAGTGAAGAGAT
TTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAAGTACCATATCC
TGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTT
CCGAAGCCCTACCTGGTTTGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAATAA
AATCAAGTTCTGTTGTTAAAAAACCCTGAACTAGTTATTTCTACTTGCCTCCTGGGATGGC
TAGTAAATAAACACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCTGGGAGTAA
TTCAAAGGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCAAAC
CTCAGCTGTTGCAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGG
GAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGTTGA
AAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGTGCC
GTTTCGCTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGGTGT
GCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAACAA

FIGURE 1 (CONT'D)

AGCCAAAATTAAGTTCATCATTAATAAGCCCGAAATGTTTGAGACGGCGATTAAGGAGAG
CACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATCACCCAATGTTAATACTACTGC
ATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCAGATGATGATAATGAAAG
ACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAAGTGAATGACCTCTTTAGTCG
GAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCAC
AATTAACCCCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCC
CAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAAATT
CACGGTCATTAGACCATTTCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAGTGA
GTCAGAAGGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCAGCCAC
AGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTG
GTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTG
TTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACCTTT
TTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGCAGA
GTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACAGCA
ATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTTATGTACTC
AGCAGAGCCTTGAGTTACGGTGTATTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTC
CTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTAGTTCTTTA
GTTTTTCTATTTGAAAAAAAATCATTAAATGATCCTTTGTTACGGCTCTCCTTAA
TGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCTCTC
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AGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTT
TTACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGGATT
GGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGATTCT
TAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTTCT
AGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCTAAG
GATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTTTAC
AAGCAATGCGAGTTGTAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCATAGT
TTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAAATA
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ATCCATCCATGCCTTTTACACACTAA

Gene 543. >ENST00000324842 cDNA sequence

ATGGCAGCCATGCGCTGGCGATGGTGGCAGCGGCTGTTACCTTGAGGTTGCTGCAGGCC
CGTGGCTTTCCACAAAATTCTGCACCCAGCCTGGGCCTAGGAGCGAGGACTTATTCCCAG
GGCGACTGCTCGTATTTCGCGCACGGCGCTGTATGATCTGCTCGGCGTCCCCTCCACAGCC
ACGCAGGCCCAAATCAAGGCGGCTTACTACCGTCAGTGCTTTCTCTACCAACCCGGACCGC
AACTCCGGGAGCGCGGAGGCCGCCGAGCGCTTACGCGCATCTCCAGGCCTACGTGGTG
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CGCGGACCTGGCGTCCGGCCCTCCAGGACGCCCCGACCCGACCCCGGCTCGCCCGGTACC
CCGCCGCCACCTCTCGGACCCACGACGGTTCTCGGGCCTCCCCCGGCGCAACCGCACG
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CGCCTGAGGGCCCGGCGGAGGCCCTTCGAAAACGGCAGGAGTATCGGTCCATGAAAGGC
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ATCATCGGCTTTTATATTTAA

Gene 544. >ENST00000222812 cDNA sequence

CATGAAGGACCGAACCCAGGAGCTCCGCACGGCCAAGGACAGCGATGATGATGATGATGT
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TCGAGGCTTCATTGACAAGATCGCAGAGAACGTGGAGGAGGTGAAGCGGAAGCACAGTGC
CATCCTGGCATCCCCAACCCCGATGAGAAGACGAAGGAGGAGCTGGAAGAACTCATGTC
CGACATAAAGAAGACAGCAAAACAAAGTTCTGTTCCAAGTTAAAGAGCATCGAGCAGTCCAT
CGAGCAAGAGGAAGGCCTGAACCGCTCCTCCGCTGACCTGAGGATCCGGAAGACACAGCA
CTCCACGCTGTCCAGAAAGTTTGTGGAGGTGATGTGGAGTACAACGCCACGCAGTCCGA
CTACCGCGAGCGCTGCAAAGGCCGATCCAGAGGCAGCTGGAGATCACCGGCAGGACCAC
GACCAGTGAGGAGCTGGAGGACATGCTGGAGAGTGGGAACCCCGCCATCTTTGCCTCTGG
GATCATCATGGACTCCAGCATCTCGAAGCAGGCTCTGAGCGAGATTGAGACGCGGCACAG

FIGURE 1 (CONT'D)

TGAGATCATCAAGCTGGAGAACAGCATCCGTGAGCTACACGACATGTTTCATGGACATGGC
CATGCTCGTGGAGAGCCAGGGAGAGATGATTGACAGGATCGAGTACAATGTGGAACACGC
GGTAGACTATGTGGAGAGGGCCGTGTCTGACACCAAGAAGGCCGTCAAGTACCAGAGCAA
GGCGCGCCGGAAGAAAATCATGATCATCATCTGCTGTGTGATCCTGGGCATCGTCATCGC
CTCCACTGTTGGGGGCATCTTCGCCTAGAAGCCACCCAACTGCCACTCCACTCCAGGTG
GGCCACTCCAAGGAGGCCCTGGCTGCTGCCACCTGGCTGGGCTGCCCTCCCAACCCCGC
CTCTGGCTCAGAGCACCTCCCTCCCGGCCCCCATGCTCCCTTCTCTGCCATGGGCCCTC
CGTCCCCGCCCCGTGTCTGTGTCATGATCTCTGTGAGTGTGCGTCTGTACGGGAAGAGGC
AGAGGGAGGCAGCCAGCGGGCGTGATGCAGTGTGCACAGCGAGGAGCAGACCCAGGCAG
GGCCGCCAGGGTGACACAGGCCACCTTCTTGCCTTCAGTAACTCGGTGGGCCCAGGTT
CTGCTCTTCCCTGGGGACCTAACCTCGCCTCCAGCTGACCTGCCCTGTCTCTCCAGCT
GTCCCCACAAGCAGAGCCCTGAGGGGTGGGGACCAGCTGGCCACATGGTGCTGCTTTTCA
GGTTAGGGGAGAGGTGGCCCTGAGGGACAGCCAGCTCTGAGTCTCAGTCGCTGATCACT
GCCAGGGAGGCTCAGGCTGCCATGGCTCCAGGCTCCCTCCCTGCCTAGGGGCAAAGTCC
ATCGGGTCTGGGCCTCAGCTTCCCTTCCACATTCTCCGGCCCCAGGAGCAACCCCTT
GGGCTAGGTCTGACCCAGGTGTCCCTCTGGAAGGGGCTGGCTGGTGCCCTATTTCCAGC
CACCCAGCAGCTAGGGAGGCAAAGCAGGCTGCAGTCAGTCCCTCAAGCCAGCGTTGCAT
GTTTGGGATGGTGGCTCCTGTTGTCTTGCGCTCTGGGAAGTCAGATGTCATTTTCAGGCCT
GCAGTCTCATCTGCCCTTGCCATCTCCCATCGATGTGCCACGTGGGTGTACGTGTCC
CAGATGCAGTATTTCGGCAGCCAGCCGGGGAGGGCTACCTCCTCCTCCTCACCACCTTGGG
GCTTCTCATGGGAAATGTGCCCCCGCCCCAGGACCTCTCCCTTGTGGACAGGCAGGGAG
ATGCATGCGAGTGCATGCAGCAGGGGATGGGGCCGTGTCCGTGTGCCCCACCTCCCTCG
GCTTTACTCCTGCCAGTGAAGTGTGACCACTGTCCGTGTTGCCTTCTTGAACAGCGATT
CCCCCAACCCCTTACCAAAGGTCTTGGTACAACAGCTGCCATTTTGTGAAATTTT
TGTAATAAACATTTGTATCTGTA

Gene 545. >ENST00000222800 cDNA sequence

GGGCGGGGCTGCGAGCTAGGGCGGGGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATG
CGAGCCGGCCAACAGCTTGCAAGCATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGT
GAGGGACTCGGCCCCCACGGCCCTAGCTTTCGCGAGGGTGCCTGTGCGACCCAGCAGCAGC
AGCGGGCGGCGGAGGGGGCGCCGAGCCGAGGCGCTTCCGCTTTTCTACAGGCTTCTGGAC
GGGGAGGCAGCCCTCCCGGCCGTGCTCTTTTGCACGGGCTCTTCGGCAGCAAACTAAC
TTCAACTCCATCGCCAAGATCTTGGCCCAGCAGACAGGCCGTAGGGTGCTGACGGTGGAT
GCTCGTAACACGGTGACAGCCCCACAGCCCAGACATGAGCTACGAGATCATGAGCCAG
GACCTGCAGGACCTTCTGCCCCAGCTGGGCCTGGTGCCCTGCGTCTGTTGGCCACAGC
ATGGGAGGAAAGACAGCCATGCTGCTGGCACTACAGAGGCCAGAGCTGGTGGAACGTCTC
ATTGCTGTAGATATCAGCCCAGTGGAAGCACAGGTGTCTCCCACTTTGCAACCTATGTG
GCAGCCATGAGGGCCATCAACATCGCAGATGAGCTGCCCCGCTCCCGTGCCCCGAAACTG
GCGGATGAACAGCTCAGTTCTGTTCATCCAGGACATGGCCGTGCGGCAGCACCTGCTCACT
AACCTGGTAGAGGTAGACGGGCGCTTCGTGTGGAGGGTGAACTTGGATGCCCTGACCCAG
CACCTAGACAAGATCTTGGCTTTCCACAGAGGCAGGAGTCTACCTCGGGCCAACACTC
TTTCTCCTTGGTGGAACTCCAGTTTCGTGCATCCCAGCCACCACCTGAGATTATGCGG
CTCTTCCCTCGGGCCCAGATGCAGACGGTGCCGAACGCTGGCCACTGGATCCACGCTGAC
CGCCACAGGACTTCATAGCTGCCATCCGAGGCTTCTGGTCTAAGAGTTGCTGGCAAGA
AGATGGCCGGGCGTGGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCTAAGGCGGG
AGGATGACTTGAGGCCAGGAGTTGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTC
TACTAAAAATACAAAATTAGCCTGGCGTGGTGGTGACACCTGTAATCCAGCTACTCT
GGAGGCTGAGGCAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAATGAGCCGAGAT
CACACCACTACACTCCAGCCTAGGCAACAGAGCAAGACTCTGTCTCAAAAAAACAAC
AAAAAGGAGGCACAAAACCCAGGCTTCAAGTCTCTGCAGCCTGCTCCACATTTGGGCAC
AGAAGGACTCAGACAGGCACTGTGTGGGCACGAGGTTTTACAGGGGTGGTCAGACCTCAG
GCTTTAATGAATAAAGACACTACTCCC

Gene 546. >ENST00000322862 cDNA sequence

GGGCGGGGCTGCGAGCTAGGGCGGGGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATG
CGAGCCGGCCAACAGCTTGCAAGCATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGT

FIGURE 1 (CONT'D)

GAGGGACTCGGCCCCACGGCCCTAGCTTCGCGAGGGTGCCTGTGCGACCCAGCAGCAGC
AGCGGCGGCGGAGGGGGCGCCGAGCCGAGGCTTCTGGACGGGGAGGCAGCCCTCCCGGCC
GTCGTCTTTTTGCACGGGCTCTTCGGCAGCAAACTAACTTCAACTCCATCGCCAAGATC
TTGGCCAGCAGACAGGCCGTAGGGTGTGACGGTGGATGCTCGTAACCACGGTGACAGC
CCCCACAGCCAGACATGAGCTACGAGATCATGAGCCAGGACCTGCAGGACCTTCTGCCC
CAGCTGGGCCTGCCTGCTCCACATTTGGGCACAGAAGGACTCAGACAGGCACTGTGTGGG
CACGAGGTTTTACAGGGGTGGTCAGACCTCAGGCTTTAA

Gene 547. >ENST00000324941 cDNA sequence

GGCCGAGCCGAGCGGATCCTGGAGCCGAGCGGAGCGGAGCGGAGCGGAGCCGGGGCG
GAGCGGGCCGAGCGGGCCGAGCCAGCAGCCGAGCTGGGGGCGCGGGCGGGCGGCATGTAC
CGGGCCCGGGCGGCGGGGCGGGGCCGAGCCCGGAGCCCGGGCGCTTTGGGATCCTC
AGCACCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCCAAGCTGGACCGGATCGTGCGG
CTCAGCAGGAAGTTCCAGGGCCTGCAGCTGGAGCGTGAGGCCTGCCTGGCCTCCAACCTAC
GCGCTGGCCAAGGAGAACCTGGCCCTGCGGCCCCGCTGGAGATGGGCCGGGCTGCCCTG
GCCATCAAATACCAGGAGCTTCGTGAGGTGGCCGAGAACTGCGCGGACAAGCTGCAGCGA
CTGGAGGAAAGCATGCATCGCTGGAGTCCCCACTGCGCGCTGGGCTGGCTGCAGGCTGAG
CTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAGCTGCTGCTCGGGGAGCAA
AGCCTGGAGGCCTTCTGCTGCTTCCAGCGTGCCGCGCCCTGGCCACCTGAGGCGG
ACGCAGGCAGAGAAGCTGCAGGAGCTGCTGCGGCGTCGGGAGCGTTCTGCCAGCCGGCC
CCCACCTCGGCTGCTGATCCCCCAAATCCTTCCCGGCTGCAGCTGTCCTGCCCACTGGG
GCCGCCCCGGGGGCCACCAGCAGTGCCCCGAGCCTGCCCCCTTGGACTCCCGCCAGTG
CCCCCACTGAAGGGCTCCCCCGGGTGCCCCCTCGGCCCGGCCCCCTGCTGAGCCCTCGG
CCCTCGCAGCCAGAGCCCCCCCCACCGGTAGGATCCACGGTGCGGCCCCCAGTTGGGGGG
CCTAGACAAACTTGATGCGTGGCTCCTCCTCCTCCCCACTGCCTGGGTGGGGGGAGGGG
CAGGCCCCCTCCCCCTGGCCTCAGGCAGGCCCTGGCCCTGGAGGCTGAGCTGGGGAGGAGG
GTCCCCTGGAAGAGGCCCGAGAGGGGGCTGGGGGTGGGTGGGCAGGGCTTTATGCCTCTG
GCGCTGAAGACACCCTGCCTTTTTTGTTCCTGCGCCCGGGGCTCTAGGGTGATGGACC
AGCCCCGTTAAAGAACTTGACTCAACTACAGGGGCCTGGGAAGATGCCTGGGTCCCCTAG
GGGCCTTGCCAAGGGGACCTGTGCGACCCCCACCACTCCACTGGGCTCGCACAACGCCAAG
GCCGCCAGGAGTGTTTTACATCATGTCTGAGCCTACCTTTCCCCCAAATTCTGGGGCCC
ACAGCCTAGGAGCCAGGTGATCAGGCCTCGGCTGTGGGGCCAGGGACACCATGGCCCTGG
GGCTACTACGTGTCCACACATGCTCCAGACCCTGGGGCAAGGTAGGCCAGGGGCTTCTGA
CCTGTGCAGGTGAGAGTGGGGCCATACCCAGGAAAGACCATTCTGTATTTTTCTGTCCCTG
TCTCCTTAGAATGGAAGCTTTTTGAGGGCAGGTCTTGTCTTTGTACGTTCTGTCCCCAG
CCCCGCCTCTTAGGGGCCGTCAATAAATGTGATGATGAGGATG

Gene 548. >ENST00000265758 cDNA sequence

GACATAAAACCGGGTGCCGGCAGGCGCCAGTCGCGAGGTGTGCTGCTGAGGCGTGAGAAT
GGCGTCCCGCGGCGGCGTCCGGAGCATGGCGGACCCCCAGAGCTGTTTTATGACGAGAC
AGAAGCCCCGAAATACGTTTCGCAACTCACGGATGATTGATATCCAGACCAGGATGGCTGG
GCGAGCATTGGAGCTTCTTTATCTGCCAGAGAATAAGCCCTGTTACCTGCTGGATATTGG
CTGTGGCACTGGGCTGAGTGGAAGTTATCTGTGAGATGAAGGGCACTATTGGGTGGGCCT
GGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACCGAGAGATAGAGGGAGACCTGCT
GCTGGGGGATATGGGCCAGGGCATCCCATTCAGCCAGGCACATTTGATGGTTGCATCAG
CATTTCTGCTGTGCACTGGCTCTGTAATGCTAACAAGAAAGTCTGAAAACCTGCCAAGCG
CCTGTACTGCTTTTTTGTCTTCTTTTTTCTGTTCTCGTCCGGGGATCCCGAGCTGTCTT
GCAGCTGTACCCTGAGAACTCAGAGCAGTTGGAGCTGATCACAACCCAGGCCACAAAGGC
AGGCTTCTCCGGTGGCATGGTGGTAGACTACCTTAACAGTGCCAAAGCAAAGAAATTCTA
CCTCTGCTTGTCTTCTGGGCCTTCGACCTTTATACCAGAGGGGCTGAGTGAAAATCAGGA
TGAACTTGAACCCAGGGAGTCTGTGTTACCAATGAGAGGTTCCCATTAAGGATGTGAG
GCGGGGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGAGAAGAAGGAGCGGCACAGGCG
CCAGGGCAGGGAAGTCAGACCTGACACCCAGTACACCGGCCGCAAGCGCAAGCCCCGCTT
CTAAGTCACACGCGGTTCTGGAAAGGCACTTGCCTCTGCACTTTTCTATATTGTTTCAGC
TGACAAAGTAGTATTTTAGAAAAGTCTAAAGTTATAAAAATGTTTTCTGCAGTAAAAAA
AAAGTTCTCTGGGCCGGGCGTGGTGGCTCACACCTGTAATCCAGCACCTTGGGAGGCTG

FIGURE 1 (CONT'D)

AGGTGGGAGGATCATTTGAGGCCAGGAGTTTGAGACCTGCCTGGGCAACATAATGAAACT
TCCTTTCCAGGGAGGAAAAAAAAAAAAAAAAAAGCTCTGAGAGCATCTTATTTTGTTTA
AAGGCAAGAAATAAAATTTCTTTTGTGG

Gene 549. >ENST00000330383 cDNA sequence

ATGGCGGCCTCAGCAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTT
CTGGCTGAGGATGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCAGTCAGCTGG
GCTGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTGGCACAGTAACGATGAC
GATGTGTACAGGGCGCCTCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCT
CGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTA
GGAAACCTACCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGT
TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCT
CTAAGTAACAGGAGAATTGAGTGGACGTTGCTGATCAAGCACTGGATAAAGACAGGGAT
GATCCTCCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGG
GCTCACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATCGATATGGT
GGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGG
ATAGGCAGTGGCAGAAGAGCATTGTCAGTGGGTATCGCAGGGATGATGACTACAGAGAA
GGCAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTCCCCCCCCCCCCAA
AGACCCAACTGAATCTAAAGCCTCGGAGTACTCCTAAGGAAGATGATTCTCTGCTAGT
AACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCT
GCTAGAGAAAGAGAAGTAGAAGAACGGCTA

Gene 550. >ENST00000327475 cDNA sequence

CCCCGGGCGAGCGCAACCGCTGGGGCCGGCCTCAGTGGGCTGAGTGGTGGGGGCATCGGGG
CCCAGAGAGCGGCTGGTTTTCGAAGTATAAAGCATTCCGCACGACGGGGGATGGAGAAGGA
TGCTGAAGATGGCGCCCCCTTCTGAGGGAGCAGAGGCTCCTCCCTCTACGGAAGAGGCTGC
CCCTCCCCGTTTCTGAGAAGAGGAAGAGGCCCCGCGCCCTCCGACAGTGGAGGCCCCGGCAGA
AGATGGTTTTCTCTCCTTCCGCAGAAGATGCTGTTTTCTTCTGTGGTGGATTATCGGGATCT
CATTCCTTCTGAAGAAGGGATAGTTCTTCCAGATGATCATGAAGCGGATCTGAATAGAGT
TCGACAGAGGCTTGACCCGCGACCGGTTGAGTCAAGTATTTGGAAGTGTCTGCTTGGC
GTCTTCCCCGAGGTCCTCCAGATACCGCCGGAGTATGAGTGGCCTTCCCAATCTACAGGA
AACATTAAGAGAGAGACAGGCAAGATTTAGAGAGGCAAGGGAAAGCCGAAGACTGAAAAT
TGACCCCTTCATACAAATATATATTTGAAATTCTAGCAGAAAATCTTGGCCTGGACATAGT
AACTGTTGAAGAATTAATTTTGGATTGCCCATCTCTGGAAGCATTACTAATTTTTTTTGC
GAAAGATGGTTGTAAGACACTGAAATTTTTGTACCAAGAAGGAGATGTACCTGGTATTGA
ATGTGGTGAAGTATTGCTGGAGCAACTAAAGGGGCAAAA

Gene 551. >ENST00000244746 cDNA sequence

CTAGTTAAGGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCTTGGGTCC
CGTCGTCTGTGATACTGCAGCGCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTC
ACGGACGAGGCCGCCCTCAGTTGCTGCTCCGACGCGGACCCCACTACCAAGGATTTTCTA
TTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTGGATTTTATACTAGA
GTTCTTGGAATGACGCTAATCCAAAATGTGATTTTCCATTATGAAGTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAATGACATCCCTAAAGAAAAAGATGAAAAATAGCCTGG
GCGCTCTCCAGAAAAGCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGAG
ACCCAGAGTTACCACAATGGCAATTGAGACCTCGAGGATTCGGTCATATTGGAATTGCT
GTTCTGATGTATACAGTGCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTGTGAAG
AAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCT
TTGAGATTTGAGAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCT
AGGACTGATGGATCACTGTCCCGATTCAAATATTCTTCAGTCCATTTCCCTTCTCTATT
TCAGCTGTTCTTTTACCTAACTGTTGAGTCACTTCTGGTTTTCAAGCAGTGCTTTATCT
CATGTCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCTT
TCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCTGCCTT
TGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTT
CAATTCCTCAGAAACAACCTTTTTTCAACCGGAAAGGAAAGAACTAGTGTTCTTTTTCAG

FIGURE 1 (CONT'D)

TAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAGAGCAATTCAAATCAT
GCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTTGGGAAAGGGGAGGAGGAAGGAAATGATATGGTACCCAG
ACACTGGGCTAGGCTGCAACTTTATCTCATTTAATACTCCCAGCTGTCTGTGAGAAAGA
AAGCAGGCTAGGCATGTGAAATCACTTTTATGGATTATTAATGGATTTAAGAGGGCATCA
ATCAGCTCAACTCAAGATTTTATAATCATTTTTAGTATTTAGATTGTGCCTCAAAGTTGT
AGTACCTCACAATACCTCCACTGGTTTCTGTGTGTAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGTCTTTA
GTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATTTCTCA
TAAAGAGTCTTCCCTATCCCAAGGTCTTCATGATGCCAGTAGCCATATATGATAAATTAT
GTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGATTCACA
TTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTG
GAAAGGCCATGCCAACCGTGCTGTACTGCTAGAAGCACTTTATGTTTCTTTTTGGGTG
AAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAAAATGA
AACTTCAAATAAG

Gene 552. >ENST00000335506 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCTCATCCA
CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCACGGAAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTCAATTAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCCAGCCGGGCCCGCCTCCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTTCAGCAGGAACCTTTAT
TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAG
AAGAACCTGGACCATTCTTGACAGAGCTGAATACAGTGATCACGTTGTCTCCAAGGAGC
AGGGGTGGGGTGGGGTACTTCTAGGAGTCCTTGGAGAAAAGTAAGAAACAGGAGTGTTT
CCAGTTCACCCCTTTCCTGCGGCACCACTCCCTTTTTATATTGCTGAATGCCAACCTCC
CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGACTTGGTTGTCAAGTCCAGGAGCAT
TTGAAGGCACAGTGCAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGTGTTGAAAATGT
TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
AACATGCTGTTCTGTAGAGTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
TAATTTTCTTTTCAATTTTAAAGTGAGAATCTTTTTATCCTAAATCTTTTATTATCTTTA
ATTTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATAC
TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGACTTGTGAGAATTCAG
TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTATT
TTATTGGTTTTATTTTGAAAAACATGGGTATAGAATTATTTAAATATTATTTTATTTACTG
AAATATTTATTAAATATATTTATTTTAAATATTATTATTACTTTAAATATTATTTTA
AATATTTTGGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGG
GTATTATAACTGTTGTATACACATACATATAATTTTGTTCCTTTTTAAGAGAGGATTTC
TTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAA
GGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGT
GGTAGTTCCCCTAAATCTTGTAATAAATAAATTTTTATTTG

Gene 553. >ENST00000330925 cDNA sequence

ATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCC
AGCCAGCACTATGTGAGTAGCTGGTACATGTTCTTGGTGAAATGGCAGGACCTGTCCGAG

FIGURE 1 (CONT'D)

AAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAAGAAATG
 TTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGCT
 CCCAAGTGGTTTTGACGGGCAGCGGGCCGCCGAGAACCACCGGGCACACTTACCGAGTAC
 TGCGGCACGCTCATGAGCCTGCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGACTTC
 TTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGAG
 ACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATC
 CTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTG
 TCCACGGGGGACGTGGTGGAGGTCTGTTGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTGAG
 ATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCCTGAC
 GAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTGCGCATCAAGGCCTAC
 ACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTAC
 AAGCTCCTGGACGGCTGGTGGGTTCATCAGGAAAGACGACGTACAGGCTACTTCCCGTCC
 ATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCGGGGG
 GCGCCGCCCCGCGAGGTCTGTCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGGGAAG
 CGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGC
 CAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCAG
 CGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGCCGAGCGCCGACCTCATCCTGAACCGC
 TGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCCC
 AGCTAGCGTCTCGGCCCTTGCCGCCCGTGCCTGTATATACGTGTTCTATAGAGCCTGGC
 GTCTGGACGCGGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAA
 ATGTTGCTTGGAGTGA

Gene 554. >ENST00000297906 cDNA sequence

ATGTCTGTGTCCAAAGAATATAACCTAAGACGCCACTATCAAACCAATCACAGCAAGCAT
 TATGACCAGTATACGGAAAGAATGCGTGACGAGAAGCTTCACGAGCTGAAAAAAGGGCTC
 AGGAAGTATCTCTTAGGCTCGTCAGACACCGAGTGTCCCGAGCAAAAAAAGTGTGTTGCA
 AACCCAAGTCCAACCCAGAAATCCCCCGTGCAGCCTGTAGAGGACCTAGCTGGGAACTTA
 TGGGAGAAGTTACGTGAAAAAATCAGGTCTTTTGTGGCATATTCTATCGCAATCGATGAG
 ATCACCGATATAAATAATACCAACCCAGTTGGCCATATTCATCCGTGGTGTGATGAGAAT
 TTCGATGTGTCCGAAGAACTTCTGGATACGGTGCACGACGGGTACAAAATCTGGAAAC
 GAGATCTTTTCGCGTGTGTTGAGAAGAGCCTGAAAAAGTTCTGTATCGACTGGTCGAAATTA
 GTAAGCGTGGCCTCCACTGGCACCCCAGCGATGGTGGATGCCAATAACGGGCTTGTTACA
 AAAGTGAAGTCCAGGGTGGCGACGTTCTGCAAGGGTGCAGAACTGAAGTCCATCTGTTGT
 ATAATTCATCCGAAATCACTCTGTGCTCAGAAGTTGAAGATGGACCACGTGATGGACGTG
 GTAGTGAAGTCCGTGAACTGGATATGCTCCCGGGGACTGAACCACAGCGAGTTCACAACC
 TTGCTCTATGAGCTGGACAGCCAGTATGGTAGCCTCCTGTACTACACGGAGATTAAGTGG
 CTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTGAATCCTTGGAAGAAATCGACTCCTTC
 ATGTCATCCAGAGGGAAACCCCTGCCTCAACTGAGCTCCATAGATTGGATCCGAGACCTG
 GCCTTCTTGGTTGACATGACGATGCATCTGAACACTTTGAACATCTCTCTCAAGGACAC
 TCCCAAATCGTCACGCAGATGTATGACCTGATCCGGGTGTTTCTAGCAAACTGTGCCTC
 TGGGAGACTCACTTGACGAGGAATAATCTGGCCCACTTTCCACCCCTGAAATTGGTTTTCC
 AGAAATGAAAGCGATGGCCTGAACTACATTTCCCAAATCGCGGAACTCAAGACCGAATTC
 CAGAAAAGGCTGTCTGATTTCAAACCTACGAAAGCGAACTGACTCTGTTTCAGCTCCCCG
 TTCTCCACGAAGATCGACAGTGTGCACGAGGAGCTCCAGATGGAGGTTATCGACCTGCAA
 TGCAACGCGGTCTGAAGACGAAATACGACAAGGTGGGAATACCAGAATTCACAAAGTAC
 CTCTGGGGTAGCTACCCGAAATACAAGCACCATTGCGCAAAGATTCTTTCCATGTTTCGGG
 AGCACCTACATCTGCGAACAGCTGTTCTCCATTATGAACTGAGCAAAAACAAATACTGC
 TCCCAGTTAAAGGATTCCCAGTGGGATTCTGTACTCCACATCGCAACG

Gene 555. >ENST00000334824 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
 TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCTCATCCA
 CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
 CTGCTGCTCTCACGAAACCCCTGTCTGCTTCTCACACTGACATCTGCTCTTAATCACA
 GAGGATCCTGTCAATAAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
 TATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCCTCCCCTCCTGGCAATAC

FIGURE 1 (CONT'D)

CAACGCATTCAATTTCTTCCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
 GCCCCAAACAAAACATCTTCTACTTCCTGTACGAGGAGACCCGCTCTCATATACCTTG
 CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
 TCTCAGATAGCCTTGTTCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
 GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
 TGGGCGCGAGATCGCGCCACCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
 TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTAT
 TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAG
 AAGAACCTGGACCATTCTTGACAGAGCTGAATACAGTGATCACGTTGTCTCCAAGGAGC
 AGGGGTGGGGTGGGGTACTTCTAGGAGTCTTGGAGAAAAGTAAGAAACCAGGAGTGT
 CCAGTTCCACCTTTCTGCGGCACCACTCCCTTTTTATATTGCTGAATGCCAACCTCC
 CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGACTTGGTTGCCACAGTCCAGGAGCAT
 TTGAAGGCACAGTGCAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
 CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGTGGAAAATGT
 TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
 AACATGCTGTTCTGTAGAGTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
 TAATTTTCTTTTCATTTTTAAGTGAGAATTCTTTTATCCTAAATCTTTTATTATCTTTA
 AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTATCTATGATAC
 TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
 TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGACTTGTGAGAATTGAG
 TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTATT
 TTATTGGTTTATTTTGAAAAACATGGGTATAGAATTATTTAAATATTTTATTACTGAAA
 TATTTATTAAATATATTTATTTATTTAAATATTATTACTTTAAATATTATTTTAAAT
 ATTTTGGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTA
 TTATAACTGTTGTATACACATACATATAATTTTGTTCCTTTTTAAGAGAGGATTCTTT
 TCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAAGGG
 AGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGTGGT
 AGTTCCCTAAATCTTGTGAAAAATAAATTTTTATTG

Gene 556. >ENST00000333149 cDNA sequence

AGAGCATGATGGGGCACGCGCGGTAGCGCGAGGCGGGGCATGTAACCATAGCGTGCGGGT
 CATGATGAGGCACGGACGTGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAG
 GATGGGGCATCTAACTGGAGCGACAGAGAGCACGATGGGGCACTTACAGGGGCGGGAGGC
 TGGCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGG
 CTTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGCCCTGATGCTGCAGTGTGGCCAC
 TCTTACTGCAAGGGCTGCCTGGTTTCCCTGTCTGCCACCTGGATGCCGAGCTGCGCTGC
 CCCGTGTGCCGCGAGGCGGTGGACGGCAGCAGCTCCCTGCCCAACGTCTCCCTGGCCAGG
 GTGATCGAAGCCCTGAGGCTCCCTGGGGACCCGAGCCCAAGGTCTGCGTGCACCACCGG
 AACCCGCTCAGCCTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTG
 CTGGGCTCCCACCAACACACCCGGTCAACCCCGTCTCCACCGTCTACAGCCGCATGAAG
 GAGGAGCTCGCAGCCCTCATCTCTGAGCTGAAGCAGGAGCAGAAAAAGGTGGATGAGCTC
 ATCGCCAAACTGGTGAACAACCGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGG
 GTGATCCGCCCGCAGTTCCAGGAGCTGCACCACCTGGTGGATGAGGAGAAGGCCCGCTGC
 CTGGAGGGGATAGGGGGTCAACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAG
 CAGGCCAGGGAAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTTCGGC
 AATGAGGACCACCACAAGTTTCATCCGGAAGTTCCACTCCATGGCCTCCAGAGCAGAGATG
 CCGCAGGCCCGGCCCTTAGAAGGCGCATTACAGCCCATCTCCTTCAAGCCAGGCCTCCAC
 CAGGCTGACATCAAGCTGACCGTGTGGAAAAGGCTCTTCCGGAAGTTTGGCCAGCCCCG
 GAGCCTCTCAAGTTGGACCTGCCACTGCCACCCACTCCTGGAGCTCTCCAAGGGCAAC
 ACGGTGGTGCAGTGCGGGCTTCTGGCCAGCGCGAGCCAGCCAGCCTGAGCGCTTCGAC
 TACAGCACCTGCGTCTGGCCAGCCGCGGCTTCTCCTGCGGCCGCACTACTGGGAGGTG
 GTGGTGGGCAGCAAGAGCGACTGGCGCCTGGGGGTCAAGGGCACAGCCAGCCGTAAG
 GGCAAGCTGAACAGGTCCCCGAGCACGGCGTGTGGCTGATCGGCCTGAAGGAGGGCCGG
 GTGTACGAAGCCTTTCCTGCCCCCGGTACCCCTGCCCCGTGGCCGGCCACCCCCACCGC
 ATCGGGCTCTACCTGCACTATGAGCAGGGCGAACTACCTTCTTCGATGCCGACCGCCCC

FIGURE 1 (CONT'D)

GATGACCTGCGGCCGCTCTACACCTTCCAGGCCGACTTCCAGGGCAAGCTCTACCCCATC
CTGGACACCTGCTGGCAGCAGAGGGGCAGCAACTCGCTGCCCATGGTGCTGCCCCCGCCC
AGCGGGCCTGGCCCCCTCAGCCCCGAGCAGCCACCAAGCTGTAGGGCCGCCCCGGAGTCC
TGCCGGCCCCACAGGCCCATCCCCGGGGGACCGGGGACTCGCGGGCTTCTGCTGGGTCC
CGCCTGAGGTGATATCGTCACTGTTTAGGAAGGTCTTCAGGCCTGTGTGTCCCTGGAACA
TGTAATGATAGGGAACAGGACCCCACTCCCTTTCCCCTCAGCCAAGGGTGTATTTGTAAA
CTTCGGCCCCCAGGCCTTGGCAGCCAGGGACACACTGAAATCCCCATGGTTTCTGCCACT
TGCTAACCATGCTATCTGCGCAGACGCTTCCGAGGGCAGAAATAGTCCCATGTATACCTT
TTCCATATTACTGTGAACTTTCAACTACTATCAAGGATAATAAATTTGACATTATTTCTT
TCTCTTT

Gene 557. >ENST00000308082 cDNA sequence

CTGTGGAAGAGAAATGGCCCCAGTTTCATCACCTTCTCTAGCCCAGCCTCATCCCGCTCC
CAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAAGAGATGTGTCACTATTCCAGT
TCTTCAACTCCATTGGCAGCAGACAAGGAGTCCCAGGGAGAAAAGGCTGCAGATACAACC
CCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAG
CGGAAAGTTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACCTCCC
CAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAG
TGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACC
CCACCTATCACTCAGCCTTCATTTACCTTTACCTTGCTGCTGCTGCACCTGCCTCCCCA
CCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAG
ACTCCCCCGAGCCTGCCACCTTGCACCAATCTGCTGGAGCAGCAACCACTGAGGCCCTC
TCACCTCCAAAGACACCCAACCTCCTACCCCCGCTGGGTTTATCACAGTCAGGGCCGCCA
GGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAACCCCCCGACCACTTTGCTGGGGCTGATC
CCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTTCAGGCAGAG
ACGACTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGCTTCCTG
TTTGGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGCATCT
CCCATGTTCAAGCCCATTTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCG
CCTGGCCCTTCAGTCTCAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACAGC
ACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCC
TTGCCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCACTGCTCCCACCACTGCCC
CCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAGT
CCATCCACAGACTCTGCTTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGC
AGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCCTCACAGCCTTTCTCTTCGGG
GCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATGGGCTCCATATTCCAGTTTGGC
AAACCTCCTGCCTTGCCCCACAACCACCAAGTCACCACTTTCAGCCAGTCCCTGCCCACT
GCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGCACCTC
GCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCAGTAACACGAGCACC
CCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGA
GCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCCA
GCCCTTACCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCT
GCACCCACACCTGCACCTCCGTCCATGATCAAGATCGTGCCTGCGCACGTGCCTACGCCC
ATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACGGCTTCG
GCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCC
TTCGGTGCAGCCACCAGCTCTGGCTTTGGAGCCACCAACCAGACCGCCAGCAGCGGGAGC
AGCAGCTCGGTGTTTGGCAGCACAACACCATCACCTTTCAGTTTGGGGGTTTCGGCAGCC
CCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCCACCACC
GGAGCTTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTCGCA
GGGGGCTTAGGTGAGAACGCCCTGGGCACCAACCGCCAGAGCACACCGTTTGCCTTCAAC
GTGGGCAGCACAACCTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGT
CTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCATCC
TCAGCACCCGCCAAGGCTTTGTTGGTGTGTCACCTTTTCGGATCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCCTAGGGGCTCGACAGCGACTGCAGGCCCGAAGGCAG
CACACCCGCAAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCAACCCCTTCCCTAAAT
CTGGACCTTGGCACGTGCTAGAAAGAGCCTTGGACCTTCCAGCTGCGTAAAGCAAACCT

FIGURE 1 (CONT'D)

ACCCCGGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGGGCCCTTTCCCTT
 CTGGAGGAAGCACAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGCCAAAGCCCGGA
 CCTCTACTTGAACAGTTCCACTGGGGAGGCTGGAGAACTAAGGAAACACCTGTACATAGT
 GTCCGCTGCCCTGACTCCCGCTTAGCGCACCCCTTAGGCAGGCGCCCTTCCACCTTTCCC
 CGAGAGCCGTCGTGCTGGAGGGGGCAGGGTCCAGCCCGCCTGGATCGGTGGTGTGCACC
 TGATGGGATTTGGGAAATGGGCTATCCGTAAAGCTTTATCTTGCTTGGCTTAGCTGTGAG
 AAGTGGTTCTCTTCTCTGGTCCCTTCTGGGACTCTGTTTCCCCATTTCTTGCTGCTGT
 GTCCCTCACCGGTTCTTGCAGGATTCCCTCCTTTTAAATGCCCTTGAATCTAGCTTTG
 CCTTGGAGACCCAGTGGGTGCTGCTCCTGCCATTTTCTTCTGCCAAGCCTGAATCAAT
 GTTTTCATCTCCAACCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAAGACTGTTA
 GCCTGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGAGCAGGCAGGATGCCACCGCTG
 CTTAGCTGCCTCCTCGCCAGCTACCTTTTGGCCCCATTGGGCCCTCGTCTGCCTCTCC
 AGGATTGTATGTTTCAAGCCTTGCCCTGTGTTCTTTGTCTGACGCTCTGTGTATTGCTC
 TTTGAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGGTAGTGCCG
 GACTTCCTGTTTCAAGTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAGCACCATT
 GACGGCTACAAGTGCCGACTCCTGAATTTTCCCATGGTGTCTGACTTCAAGGGCTGGCA
 GCCAGGGAGAATGGGCCAGGGGAAGCAAAGACCTCTTCCCTCTGCCGTTTCTGTCCAC
 TTAAGTACCTCACTGGAGGCTACATCACCCAAAGTAGATGTTAGAAAACCTAAATTAAT
 GAACCATATTTTTTAAATCCTATTTTTTCCCAAACAGGGCCCTCTGCAGCCAGCCTTTCC
 TTCCGTCCTTCTGAAACCATATCCCCAGGCCCAAGCGCTTGCTGCCACGCCCAACCTC
 TTTGGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 558. >ENST00000310326 cDNA sequence

AAAGGCGCGCGGAACATGGGGCTGTATGCTGCAGCTGCAGGCGTGTGGCCGGCGTGGA
 GAGCCGCCAGGGCTCTATCAAGGGGTTGGTGTACTCCAGCAACTTCCAGAACGTGAAGCA
 GCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCTGTGATCGC
 CAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTGGCCAAGGTGCTAGT
 GTATGAGTTGTTGTTGGGAAAGGGCTTTGAGGGGGTGGGGGCCGATGGAAGGCTCTGTT
 GGGCCGGCACCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTGT
 GAGCCGGAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCCAGCTGCC
 TCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCAA
 GAGACAAGGTTTTCTCCTATCAGGGTGGGGCTTCCAGCCTCGATGACTTACGAGCCCTCAA
 GGGGAAGCATTTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGAC
 AGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAG
 CTGTCTCCCAGCCATGCTGCTGGACCCCCCGCCAGGCTCCCATGTATCGATGCCTGTGC
 CGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTT
 TGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCGGGCTGG
 CGTCTCTTGCTGTGAACTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTCGGATCCACG
 CTACCATGAGGTCCACTACATCCTGCTGGATCCTTCTGTCAGTGGCTCGGGTATGCCGAG
 CAGACAGCTGGAGGAGCCCGGGGCAGGCACACCTAGCCCGGTGCGTCTGCATGCCCTGGC
 AGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGT
 CTACTCCACGTGCTCCCTCTGCCAGGAGGAGAATGAAGACGTGGTGCAGATGCGCTGCA
 GCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCTGGCCCCACCGAGGCCT
 GAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCTGAGACCACACTCAGCAG
 TGGCTTCTTCTGTTGCTGTAATTGAACGGGTGAGGTGCCAAGGTGAGTGAGTGGGGGCGT
 GCTTGGGAGGCGCAGGATGGCACCGGCACATCTAACATCTACACTTCTCTAGCTCAGCCT
 CACAGGCCAAAGCATCAGCACAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGA
 GACAGCAAAGAGCCGAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGG
 CTGACTCCTTCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCTTGGGCCC
 TCACCGCAGGAAGCAGTTTGGGTTTTGAAAGGTTATTGGGTCCCTTCTTGGGCTGTGTT
 CTTGCTGGTGAGCAAAGTGTTGCCTGCAAAAATAAAATGCAGAACGTACTCT

Gene 559. >ENST00000257657 cDNA sequence

GTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCCTACAGAGAAATGGAAAAGAAAAA
 ATTGTCTTGGAACAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAAAAG
 GTTAGTGCTATAGTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAAACGAGCC

FIGURE 1 (CONT'D)

TTACTTGAAATCAAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGCCAGA
GAGAATGAAGCAACTTCATTAAGTAAAGAGGGATCTTGGATCTCAATTTACGCAACAGT
CTCATTGACAAGCAGAACTACCATGATGAACCTTCTCGTAAGCAAAGAGAGAAAAGAACGA
GATTTTCGAAATTTAAGAAAGATGGAAGTCTTCTGAAAGTGTCTGGGATGCACCTTAGG
CAAACTCAAGCACTGCATCAAAGGCTTCTATTAGAGAAAATTATATCAGAAATGGAGTCT
AAGTTAGTAGAACAACAACCTTGCAAGAAAAACAAGCTTTTAAAGGAGCAAGAAAAATG
AAAGAGCTAGTAGTCAACCTTCTCCGCATGACTCAAATCAAAATTGATGAAAAGGAACAA
AAGTCCAAGGATTTCTGAAAGCTCAGCAAAAATACACCAACATTGTTAAAGAAATGAAA
GCAAAGGATCTTGAAATCAGGATACACAAGAAGAAAAAATGTGAAATTTATCGGAGACTG
AGAGAGTTTGCTAAACTGTATGACACCATTGCAATGAAAGAAAACAAATTTGTTAACTTA
CTCCACAAAGCTCATCAGAAAGTAAATGAAATAAAAGAAAGGCATAAAATGTCATTAAAT
GAACTTGAAATTTCTGAGAAATAGTGCCGTTAGTCAAGAAAGAAAGCTACAAAATTCATG
CTGAAACACGCCAACAAATGTTACCATCAGAGAGAGCATGCAAAACGATGTGCGCAAAATT
GTATCAAACTTCAGGAAATGAAAGAAAAGAAGGAAGCCAGTTAAATAACATTGACAGA
CTTGCCAACACGATCACAATGATCGAAGAGGAGATGGTGCAGCTTCGCAAAAGATACGAA
AAAGCTGTTTCAGCATCGAAATGAAAGTGGCGTTTCACTGATAGAGCGGGAAGAAGAAATA
TGCATTTTTTTATGAAAAAATAAATATCCAAGAGAAGATGAACTAAATGGAGAAATTGAA
ATACATCTACTGGAAGAAAAGATCCAATTCCTGAAATGAAGATTGCTGAGAAGCAAAGA
CAAATTTGTGTGACCCAGAAATTACTGCCAGCCAAGAGGTCCCTGGATGCCGACCTAGCT
GTGCTCCAAATTCAGTTTTTACAGTGTACAGACAGAATTAAAGACCTGGAGAAACAGTTC
GTAAAGCCTGATGGTGAGAATAGAGCTCGCTTCTTCCAGGGAAAGATCTGACCGAAAAA
GAAATGATCCAAAATTTAGACAAGCTGGAAGTACAAGTGGCCAAGAAGGAGGAGAAGCTG
CTGGAGAAGGATTTTATCTATGAGCAGGTCTCCAGGCTCACAGACAGGCTCTGCAGCAAA
ACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAAGAAGATGAATGGCTATCAAAGA
AGGATCAAAAATGCAACTGAGAAAATGATGGCTCTTGTGCTGAGCTGTCCATGAAACAA
GCCCTAACCAATTGAACTCCAAAAGGAAGTCAGGGAGAAAGAAGACTTCATCTTCACTTGC
AATTCAGGATAGAAAAAGGTCTGCCACTCAATAAGGAAATTGAGAAAGAATGGTTGAAA
GTCCTTCGAGATGAAGAAATGCACGCCTTGGCCATCGCTGAAAAGTCTCAGGAGTTCTTG
GAAGCAGATAATCGCCAGCTGCCCAATGGTGTGTTACACAAGTGCAGAGCAGCGTCCGAAT
GCCTACATCCCAGAAGCAGATGCCACTCTTCTTTGCCAAAACCTTATGGTGCTTTGGCT
CCTTTTAAACCCAGTGAACCTGGAGCCAATATGAGGCACATAAGGAAACCTGTTATAAAG
CCAGTTGAAATCTGAATATGTGAACAAATCCAGGCCTCTCAAGGAAAAGACTTCAACCAG
GCTTCCTTGTACCCACAGGTGAAAAATGTGAGCATAATACTTCTAATATTATTGATAAGT
AAGGTAACCACAATTAGTCAGCAACAGAGTACAACAGGGTTTTCTATTTACCCACCAACTA
CTATACCTTTTCATGACGTTGAATGGGACATAGAACTGTCTTACATTTATGTCAAAGTATA
TATTTGAATCGCTTATATTTTCTTTTTCACTCTTTATATTGAGTACATTCCAGAAATTTG
TAGTAGGCAAGGTGCTATAAAAATGCACTAAAAATAAATCTGTTCTCAATGAAGTACGGA
AATGG

Gene 560. >ENST00000285871 cDNA sequence

ATACCAAGGACGCGACTTCTTGTGTTGGAGAGGGTGGAGCTTTGGAGTGAGACCCAGGAGG
CCAAATCCCAAAGAGAAAAATAGGAGCCTAAATAAGGATCAGGACCAAGGGAAGGGAATC
GTGAAAAATGGAAGACAGTAGCACAGACACAGAAAAAGAAGAGGAAGAGGAGAAAGATGA
AAAGGATCAAGAGCCCATTATGCCATAGTGCCCAACAATTAACATTCAAGATGAGCGGTT
TGTTGATTTATCTGAAACTCCAGCTTTTCAATTTTTCTGCATGAGTTACATGCTATGGGAAA
ACTTCCTGGAACCAGAATGGCAGCGTTAAAAGCCAAGTATACCTTGCTGCATGACGCCGT
GATGAGCACACAAGAGTCAGAGGTCCAAGTGTACAGAATGCCAAACGTTTCACTGAGCA
AATACAACAGCAGCAGTTTACCTGCAGCAAGCTGATAATTTTCCAGAAGCATTCTCCAC
GGAGGTCTCCAAAATGAGAGAACAACTTCTCAAGTATCAAAATGAATATAATGCAGTGAA
GGAAAGAGAGTTCCATAATCAGTACAGATTAAATAGCTTAAAGGAAGAAAAAATCATCAT
AGTAAAAGAATTTGAGAAGATAACAAAGCCAGGAGAAATGGAGAAGAAGATGAAAATATT
GAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTAGAAATTAATAA
TTTACGAGAAGATTTGGCATCTAAACAAAAGCAATTATTAAGAGAGCAGAAGGAACTAGA
AGAATTGTTGGGACATCAGGTGCTCCTAAAGGATGAAGTGGCCACCATCAAACCATTC
AGTACAAATTGGAAGAGATAGAAAAATAACACGCAAAAAGTAGAAATGGAAAAGAA

FIGURE 1 (CONT'D)

AAAAATTGTCTTGGAACAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAA
 CAAGGTTAGTGCTATAGTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAAACG
 AGCCTTACTTGAAATCAAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGC
 CAGAGAGAATGAAGCAACTTCATTAAGTAAAGAGGGATCTTGGATCTCAATTTACGCAA
 CAGTCTCATTGACAAGCAGAACTACCATGATGAACTTTCTCGTAAGCAAAGAGAGAAAGA
 ACGAGATTTTCGAAATTTAAGAAAGATGGAAGTCTCTGAAAGTGTCTGGGATGCACT
 TAGGCAAACCTCAAGCACTGCATCAAAGGCTTCTATTAGAGATGGAAGCTATCCCCAAAGA
 TGATTCTACATTATCTGAGAGAAGGCGAGAGCTTCACAAGGAAGTTGAAGTAGCTAAGAG
 GAATTTGGCCCAACAGAAAATTATATCAGAAATGGAGTCTAAGTTAGTAGAACAACAACCT
 TGCAGAAGAAAAAAGCTTTTAAAGGAGCAAGAAAACATGAAAGAGCTAGTAGTCAACCT
 TCTCCGCATGACTCAAATCAAATTTGATGAAAAGGAACAAAAGTCCAAGGATTTCTGAA
 AGCTCAGCAAAAATACACCAACATTGTTAAAGAAATGAAAGCAAAGGATCTTGAAATCAG
 GATACACAAGAAGAAAAAATGTGAAATTTATCGGAGACTGAGAGAGTTTGCTAAACTGTA
 TGACACCATTTCGAAATGAAAGAAAACAAATTTGTTAACTTACTCCACAAAGCTCATCAGAA
 AGTAAATGAAATAAAGAAAGGCATAAAATGTCTAAATGAACTTGAAATTTCTGAGAAA
 TAGTGCCGTTAGTCAAGAAAGAAAGCTACAAAATTCATGCTGAAACACGCCAACAAATGT
 TACCATCAGAGAGAGCATGCAAAACGATGTGCGCAAAATTTGTATCAAACTTCAGGAAAT
 GAAAGAAAAGAAGGAAGCCCAGTTAAATAACATTGACAGACTTGCCAACACGATCACAAT
 GATCGAAGAGGAGATGGTGCAGCTTCGCAAAAGATACGAAAAGCTGTTTCAGCATCGAAA
 TGAAAGTGGCGTTTCAGCTGATAGAGCGGGAAGAAGAAATATGCATTTTTTATGAAAAAAT
 AAATATCCAAGAGAAGATGAAACTAAATGGAGAAATTGAAATACATCTACTGGAAGAAAA
 GATCCAATTCCTGAAAATGAAGATTGCTGAGAAGCAAAGACAAATTTGTGTGACCCAGAA
 ATTACTGCCAGCCAAGAGGTCCCTGGATGCCGACCTAGCTGTGCTCCAAATTCAGTTTTT
 ACAGTGTACAGACAGAATTAAAGACCTGGAGAAAACAGTTTCGTAAAGCCTGATGGTGAGAA
 TAGAGCTCGCTTCCTTCCAGGGAAAGATCTGACCGAAAAAGAAATGATCCAAAAATTAGA
 CAAGCTGGAACTACAACCTGGCCAAGAAGGAGGAGAAGCTGCTGGAGAAGGATTTTCATCTA
 TGAGCAGGTCTCCAGGCTCACAGACAGGCTCTGCAGCAAACTCAGGGCTGCAAGCAGGA
 CACACTGCTCTTAGCCAAGAAGATGAATGGCTATCAAAGAAGGATCAAAAATGCAACTGA
 GAAAATGATGGCTCTTGTTGCTGAGCTGTCCATGAAACAAGCCCTAACCAATTGAACTCCA
 AAAGGAAGTCAGGGAGAAAGAAGACTTCATCTTCACTTGCAATTCAGGATAGAAAAAGG
 TCTGCCACTCAATAAGGAAATTGAGAAAGAATGGTTGAAAGTCTTCGAGATGAAGAAAT
 GCACGCCTTGGCCATCGCTGAAAAGTCTCAGGAGTTCTTGGAAGCAGATAATCGCCAGCT
 GCCCAATGGTGTTTACACAACCTGCAGAGCAGCGTCCGAATGCCTACATCCCAGAAGCAGA
 TGCCACTCTTCCTTTGCCAAAACCTTATGGTGTCTTTGGCTCCTTTTAAACCCAGTGAACC
 TGGAGCCAATATGAGGCACATAAGGAAACCTGTTATAAAGCCAGTTGAAATCTGAATATG
 TGAACAAATCCAGGCCTCTCAAGGAAAAGACTTCAACCAGGCTTCCTTGTACCCACAGGT
 GAAAAATGTGAGCATAATACTTCTAATATTATTGATAAGTAAGGTAACCACAATTAGTCA
 GCAACAGAGTACAACAGGGTTTTCTATTTACCCACCACTACTATACCTTTTCATGACGTTG
 AATGGGACATAGAACTGTCTACATTTATGTCAAAGTATATATTTGAATCGCTTATATTT
 TCTTTTTCACTCTTTATATTGAGTACATTCCAGAAATTTGTAGTAGGCAAGGTGCTATAA
 AAATGCACTAAAAATAAATCTGTTCTCAATG

Gene 561. >ENST00000257626 cDNA sequence

ACAGAGCCTGGGCTCACTGACCAGCCCAGGAGGAACCAGCCTCTGCCTTACCAGGCCATC
 AATCCCTGAAGCCAGGGGATCTGCCCTGCCAGACACGGGCATGTGTGTGTGTGTTTTCAGG
 CTTATCATCCTTGCATTGCTGGGGGTTTTGCAACACGGGGAACGTTGCTGGTCTGGCTGA
 GGTTCCTGTGCTGCCACCCCTCCTGCCCTGCTTATGGAGCTACTGTATGTGTGAGGGCCG
 TTTGCATCCTGTTACTAGTCAGTCTATCTTAATGCACTTTAGGAACTCTTCCCTTTCTT
 TGCACGTGCTTTGCGTATACTAGTTCCCCATAAAGAATGTCACTGCCTGAAACAGAACAT
 TCTGTGAAATGCAGGGCTGTTGGATTACATGTTAAATTGTTTCATCTCAATCACGAGGG
 TTGTGTAGGATCCAGGGAAGATTTATCCCGGGGGTCAAGAGATATCGATGCCCTCCCAG
 AAGGAGTTGCCAGCCCACTGAGCAGGGTGGTTCTGCCCTCTTGCCTGGCACTGGATCTCA
 AGTATTTAAGAAGAAAAGAATGGAATACAAAGAAGTTAGAAGCGCTTTGGGGCAGATTTT
 CCAGCAAGACTGGGTTTGTCTGCCCCCTAGGGCCACTACACTGTAGTGTGCATTGCAAATC
 ATGGTGGAGAAGGTACCATTTGATTTAACATATCACTTTTCCACCTTTACCTAACTACCT

FIGURE 1 (CONT'D)

TTGTAGTCTGATAACTTGTGCCAGTTAGTATTATTTGCTGCAGTAATTGACTGGCCCCCT
CAGCTCAGTAACTCCCAAGGCTACTGAACTACAGGGTTAGAAAAGTAGAAGGGAGCCATG
CAGTCCTTCCACCGAGCGCTGTTCCCTCAATTTATGACCCAGAAAGGGTTAAGAGAAGGC
CCAAGTCCCTCTGTTTCCAGTGGAGCAGAGGTTCTTAGCAGTGAGTTTTAGTGTTGAACA
AAAATCAAAGCTAGAGCCTACTGGGGTTGAGGAATGTGTTGGTTTCTTTCTTTCTCGGTC
ATTCCCTGTTTTCACACAGCTCTGATAAGTTACCTTGTAGGACTAGGTACACTTAGGTG
ATGAAAAATTTTCATCCTGTGTTATGTTTTCTCAATGACTCAGAGAAGGGAAACCCAGGC
TGATTCTTCTTCTTCTAACCCATCTCCTGAAAACCTGCTCAGAGCCTAACTATTGCTCTG
TTTCATTTTCAGGGCCAAGATTAACACCCCTCCTGCAGGAGGAAGACAGCCACCAGCGGCT
GCTCATGGGGCTGATGGTGTCTGAGCTAAAAGACCATTTTTTGGACACCTACAGGGTGT
AGAAAAGAAGAAAATTGAACAGATGGTCTGGACTACATTTCAAACCTGCTGGATCTCAT
TTGCCACATCGTAGAAACCAATTGGAGGAAACATAATCTTCATTCTGGGTTCTCCACTT
CAATAGTCGTGGCAGTGCTGCTGAATTTGCAGTTTTTTCACATCATGACCAGGATTCTGGA
AGCTACAAACAGTTTGTTTTTTACCTCTGCCTCCTGGTTTTTCATACTCTGCACACCATCCT
CGGGGTCCAGTGTCTCCCTTTGCATAACCTGCTGCATTGCATTGACAGTGGAGTGTTGCT
TCTCACTGAAACAGCTGTGATAAGGCTCATGAAAGATCTGGATAATACAGAGAAAAATGA
AAAACCTGAAATTCAGTATCATTGTGCGGCTTCCTCCGCTTATTGGGCAGAAGATTTGTAG
ACTTTGGGATCATCCTATGAGTTCTAACATCATTTTCGCGGAACCAAGTGCAGCGACTGCT
TCAGAACTATAAGAAACAGCCTCGGAATTCTATGATTAAACAAGTCATCGTTCAAGTGTAGA
ATTTCTGCCTCTGAACTACTTCATTGAAATTCTGACAGATATAGAGTCCTCCAATCAAGC
CCTGTATCCTTTTGAAGGACATGACAATGTGGATGCAGAATTTGTAGAGGAAGCAGCTCT
GAAACACACCGCGATGCTTTTAGGCTTATGAAAAAGAAAACGCAATTGGATCTGCTGCTG
CCATTTTAAATCTTGCTCATTAACTTACTCCTTTGAGAATTCTTTAAACAATATTTAAAAT
TGGTAACAAAAATAGTTTATGCCATAATTGTTTATGCCATGTGAGTTTTAGGTTGGTACACG
TTCAGACAGAACTGCTGTATCACATTTCCAATTTTGAATAGCCAGTGAGCAATCAAGTGTA
GAGAAATGATAAATGGCCTAAGAAGGCATACAGTGGCATAAACGATGCTCTTCCTAGTAG
CTTAATAGGCCACAAGCTAGTTTCTGTTGCACTCTGAAATAAAATATGCTTTAAAAATGT
AGGGAACAGTGCTTAGAAAAGCAAAAACCTAGGTGTGTCATTGAAATAATAGGCATAAAAA
TTAAATGTTACATAAGAACACTATTTGGAAAGAGGGTCTTTTAAAAACTGAATTTGTAC
TAAATCAGATTTGCCATGTCCAGTACAGAATAATTTGTACTTAGTATTTGCAGCAGGGTT
TGTCTTTGTGAATTCAGATGAAACATATTTATTTTTTTTTTATTTATAAAAGGTTGATTTA
GGAATATTTTGTGCTCATTAAAAAACCTG

Gene 562. >ENST00000334003 cDNA sequence

TCAGATGTTTTAGAAAACGATTATGAGAGCTTACATGTATTAAATGTTGAAAGAAATGGA
AATATTATTTATACCTATAAGGATGATAAGGGAAATGTCGTCTTTGGATTATATGATTGT
CAAACAGACAAAATGAGCTTCTATATACCTTTGAGAAAGACTTGCAAGTTTTAGTTGC
TCTGTCAACAGTGAAAGGACTTTGCTTGCTGCAAGTTTAGTTTCACTACTAAAGAAGGA
AAAAGGAACGAACCTTCAACAGGATCAAAGTGCTTGACTTTGTTGGTTGAAATCCACCCT
GTTAAACAATGTGAAGGTTCTAAAGGCTGTGGATAGCTATATTTGGGTTCAAGTTTCTCTAC
CCACATATTGAAAGTCATCCTCTTCCAGAGAACCATCTGTTACTGATTTTCAAGAGAGAAA
TATATTGAACAATTTTCGTATCCATGTGCCCCAAGAAGATGGAATAGAGTGGTGATTAAA
AATTCTGGCCATCTCCAAGAGACAGAATAGCTGAGGATTTTCGTTTGGGCTCAGTGGGAT
ATGTCAGAACAGAGATTATATTACATTGACCTGAAGAAATCAAGGAGTATCTTAAATGT
ATCCAGTTTTATGCTGATGAGAGCTATAACTTAATGTTTGAAGTACCCTTGGACATATCA
TTAAGCAACTCAGGATTTAACTTGTCAACTTTGGATGTGATTATCATCAATACCGAGAT
AAATTTTCCAAACACCTGACTCTGTGTGTTTTTACCAACCATAACAGGAAGTTTGTGTGTA
TGTTACAGCCCGAAGTGTGCCTCTTGGGGACAAATCACATATTCAGTGTTTTACATTCAT
AAAGGACACAGCAAGACCTTCAACCTTCTCTTGAGAATGTTGGGTCACACATGACAAAG
GGCATTACTTTTCTCAACCTTGAATATTATGTGGCTGTTTACTTACCTGGTCATTTCTTC
CACCTACTTAATGTTCAACATCCAGACCTGATCTGCCACAATCTCTTTCTGACAGGAAAT
AATGAAATGATTGATATGCTACCTCATTGCCCTTTACAGTCATTGTGAGGGTCCCTGGTA
TTGGATTGTTGTTCTGGAAAGCTCTATAGAGCACTGCTCAGCCAGTCGTCTTTATTACAG
CTTCTGCAGAACCTTGCTTAGACTGTGAGAAGATGGCTGCGTTGCACTGCGCGCTCTAC
TGCGGTCAAGGTGCGCAGTTCCTGGAAGCCAGATTATTCAGTGGATTTCTGAGAATGTC

FIGURE 1 (CONT'D)

TCTGCCTGCCATTTCATTTGACCTCATTTCAGGAATTTATAATTGCTTCTTCATACTGGAGT
GTATATTTCAGAGACAAGTAACATGGACAACTATTGCCACATTCCTCAGTGCTCACTTGG
AATACAGAAATTCCTGGAATAACTCTTGTGACAGAAGACATTGCATTGCCTCTTATGAAG
GTGCTCAGCTTTAAGGGCTACTGGGAAAACTGAACTCCAACCTAGAATATGTTAAGTAC
GCCAAGCCACACTTCCACTATAACAACAGTGTGGTCAGGAGAGAGTGGCACAACCTGATC
TCTGAAGAGGTATGAGTGGGTGAGTGAAGCAAGCCAGCAGCGAGGCATAGTGGACTGG
ATCCAGGTGATGCCTTTAAATCATAAGGCTGGCTTCCATGTGCAGCACTCTTCCCAATTG
CCAGGGACTTGATCATTGTCTATTACTGATCTCAATGGGCAGAGATGCTTCTATGATCTCT
GTTCTCCTAGGGAGGAACTGAAAAGCAGAAAGTTTAAGGGGACACACAGCACATTTCATA
GTAGAAGTATGATTAATATCCATGTCTCAGATGTGTTCTCAGGTTACTTATGTAGTTAAA
AATTGATATTAAAAATCTAGGTGTTCCCACTTAGTGGTCATTAGGGGTTGGGGTAGTT
GGAGGGAGAATAGTGGACGTGACTCACTGTCCAGGGGTGACCCAGGGAAATCTTTGGGGG
TGATCGAAGACTTCTATGTGTTGATTGTGGTGGTACATTGTGGGACATGAATCTAAACAT
GATAAAATGACATAGAATGACACACACACATTGTGCCAATGTCAATTTTTGATTTTGATA
TTGTGCTCTAGTTAGGTAAGATATAAGCACTGAGGAGACTGGGTGGAGGGTACATTGCAT
CTCTCTCTAGTATCGCTGCATGTAGATTAGTGTGTTGTGTGTAGTATATAGTTGACTCG
CAGTTTCCTGTGAATCTGTAATTGTTTCAGAATAAAATATTTCTTAAACCTTT

Gene 563. >ENST00000334955 cDNA sequence

ATGGCGGAACCGCCGAGCCCCGTGCACTGTGTGCTGCTGCCGCGGCCCCCACCGCCACCGTC
TCGGAGAAAGAACCCTTTGGCAAGCTGCAACTCTCCTCCCGGGACCCCTCCGGGTTCTCTG
TCCGCCAAGAAGGTCCGGACTGAGGAGAAGAAGGCACCGCGGAGAGTGAACGGAGAAGGG
GGCAGCGGCGGGAACAGCAGGCAGCTGCAGCCGCGGCAGCACCTTCGCCTCAGAGCTAT
GGCAGCCCCGCGTCTTGGAGCTTTGCCCCCTCTGTCTGCTGCTCCCTCCCGTCTCTTCT
CGGAGCAGTTTCTCTTTCTCCGCTGGCACGGCCGTTCCCTCCTCAGCCTCCGCTTCCTTG
TCTCAGCCGGTGCCGCGCAAACTGCTGGTCCCTCCTACGCTGCTGCAGCTCAGCCTCAC
CATCTCCTCCTGCCCCGCCGCCGCCGCTGCCTCGGCTAACGCCAAGTCGCGCAGACCT
AAGGAGAAGCGGGAGAAGGAGAGGAGGAGGCACGGTCTCGGTGGGGCCCGAGAGGCCGGC
GGGGCCTCCCGGGAGGAGAACGGGGAGGTGAAGCCGCTGCCCCGAGATAAAATCAAAGAC
AAAATTAAAGAGAGAGACAAAGAAAAAGAAAGAGAAAAAAGAAA

Gene 564. >ENST00000257663 cDNA sequence

CTGAGAGATCCTCTACCGCAGTCGTTTGAGGAGGCGGAAGTTTTTCTTAATTAT
CATGTGACGGGTTCTGGATTTAATGGGGGAAAAAGGGCGGAAAAGGACAAGGATCCAAAC
TGGCGAATTTGCTGATCTTCGCGTCCCTCTCCGCTTTCCGGCCGGCAGCGCTGCCAGGGT
ATATTTCTTTTTTCCGATCCTGCAACAGCCTCTTTAACTGTTTAAATGAGAATGTCCT
TGGCTCAGAGAGTACTACTCACCTGGCTTTTCACTACTCTTCTTGATCATGTTGGTGT
TGAACTGGATGAGAAAGCACCTTGGAAGTGGTTCCTCATATTCATTCCAGTCTGGATAT
TTGATACTATCCTTCTTGTCTGCTGATTGTGAAAATGGCTGGGCGGTGTAAGTCTGGCT
TTGACCCTCGACATGGATCACACAATATTAAAAAAAAGCCTGGTACCTCATTGCAATGT
TACTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAACTGGAACAGTTTACTACCATGA
ATCTATCCTATGTCTTCATTCTTTATGGGCCTTGCTGGCTGGGGCTTTAACAGAACTCG
GATATAATGTCTTTTTTGTGAGAGACTGACTTCTAAGTACATCATCTCCTTTCTATTGCT
GTTCAACAAGTTACCATTAAAGTGTCTGAATCTGTCAAGCTTCAAGAATACCAGAGAAC
TGAGGGAAAATACCAAATGTAGTTTTATACTACTTCCATAAAACAGGATTGGTGAATCAC
GGACTTCTAGTCAACCTACAGCTTAATTATTACGATTTGAGTTATTGAGATCCTTATTA
TCTCTATGTAAATAAAGTTTGTGTTTGGACCTC

Gene 565. >ENST00000333674 cDNA sequence

TTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATA
TGCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAAACAGT
CTGGATGCTGGTGCCACTAATATTGTGCTCTCTGTCTCACTGTCTTTTAGATGCCAAACC
TTAGATTTTATGATGACTCCTCAACCGTTTAGATCTTGGTTATCTCAGAGGGATCGTCAG
CTTTTAAAGAAAGTTTGGAGAGAAAAGCAAGTGAAGAAAAGCATAGTCAATGCTCAACAT
CACGGGTCTCTCACTGAACACACCACGGTATTCTCTCACAGCGATGTCAACATTTCTACC
TGCCACGCATCGGTGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATC
CAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCT

FIGURE 1 (CONT'D)

ACACTACCTGTGCGCCATAAGGAATTTCAAAGGAATGTTAAGAAGGTACACAATATAAAA
AGGGTGGTGGTGCCGCAGGAAAGGGTGGAACTGGAAACACTCCTGGTTTCTTACTTTTCT
CCAAGGACTCCTAGAAGGACCCACCCCCCTCCCCCACCCCTGCTCCCAGGAGGACAAC
GTGATCACTGTATTTCAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 566. >ENST00000332397 cDNA sequence

AAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
CAGCGAGTGTCACCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTCTGGAAAAGGAAGAGGGAGTGGTGG
GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCTGAGCCTGAG
GAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATT
AAAAGATTCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAGCCGGGCGGCCTCCCCCTCCTGGCAATACCAACGCATTCAATTC
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACCCCAACAAAAC
ATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCTTGGTCCGTAACCGTCGG
TTCCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCTCAGATAGCCCTG
TTCCAGAACTTCGGTTCCAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGG
GAGGAGTTGGAGGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGATCGC
GCTCGCCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCATCGGCCTGAGAGAAG
AACACCGGACCCACGGGAGATGTGGATTTTTCAGCAGGAACTTTATTCCAATGCTAATGGC
AGTCAACAGGAAAGAGGAGAGGAACCATTTGTGCAGATCATCTAGAAGAACCTGGACCAT
TCTTGATGGAGCTGAATACAGTGATCACGTTGTCTCCTGGGAGCAGGGGTGGGGGGAGG
GGGGTGGGGTCTTTCTAGGAGTCTTTGGAGAAAAGTAAGAAACAGGAGTGTTCAGTT
CCACCCTTTCTGCGGCACCAACACCTTTTTATATTGCTGAATGCCAACCTCCCTGGGG
CGGAACCTGAGGTCTGTTTTCTTACGGACTTGGTTGCCACAGTCCAGGAGCATTTGAAGG
CACAATGCAGGGGCTCAGATTGGGCACAGAATCTTTTTGTGAAATATCAGTGCCACAGATT
GTAACAGATAGCTTCATGCACACTCTGCATTTTATTGGTTTGGTTGGAAAATGTTGGCCA
TTGAATTATTTCATAGATTTATTTCAAATAGTTTGGAAATTGTTGTACTTTGAAAACATG
CTGTTCTCTGTAGTTTTTTGATGAGAGTTATAGTTGTTATATATACATAAAGATAATTTTC
TTTTCATTTTTTAAGAGACAATTCTTTTTATCCTAAATATTTTATTATCTTTAAATTTGTT
TCTGTATTATTATATGTGCTCCTGAAGTGAGCACTCTTTTTATCTATGATATTTCCATAA
TAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAATTCTGGTG
ATAGAAATTTTTATTGCTGTTTAGGTCTGTGACTGAATTGTGAGAATTCAGTTGTGATT
TTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTAATTTATTGGT
TTATTTTGA AAAACATGGGTATAGAATTATTTAAATATTATTTTATTATTGAAATATTA
AATATATTTATTTATTTGAATATTATTACTTGAAATATTATTTTAAATATTTTGGAAATA
CTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATAACTGTTA
TATACACATACGTATAATTTTGCTTTCTTTTTTAAGAGAGGATTCTTTTCATCCTAAATC
TTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAAGGGAGCATGGTTTTTT
ATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGTAGTAGTTCCCCTAAA
TTCTTGTA AAAATAAATTTTTATTG

Gene 567. >ENST00000328339 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTCTGGAAAAGGAAGAGG
GAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
GAGCCTGAGGAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATTAAGATTCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTC
CTGGCTATGGTCATAGCGTATCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAACGCAT
TCATTTCTTCTGGCTCTGTG

Gene 568. >ENST00000310842 cDNA sequence

CCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGATAGCGAGTGTGAGGGCC
GGCCGGGGCGGCGCTTCTCGGCCTGTGCTGGTGGCCTCCTACTGTACCTCGTGCCTGC
TGCGGCTGCGCTGGCCTGGCTGGCCGTGGGGACTACCGCGGCTGGTGGGGACTGAGCCG

FIGURE 1 (CONT'D)

CGAGCCCCGAGGTTTCGCGCCCCCTTGTCCTCCTTCGTTTCAGAAGGCGCGACATCGGCGAAC
 ACTGTTTCGCTTCGCCTCCGGCCAAGTCGACAGCCAACGGAACCTCCTAGAGCCGCGGAC
 CCTGCTCGAAGGACCTGACCCTGCCGAAGTCTCCTCATGGGCAGTTACCTGGGCAAGCC
 CGGGCCGCGCAGCCCCGCCCCGCTCCGGAGGGCCAGGACCTGCGGAATAGGCCTGGCCG
 CCGCCCCGCGCCCGCGCGCGCTCCACACCGCCCTCCCCGCGGACCCATCGCGTTTAC
 CACTTTTACCCCTCTCTCCCCACTCCTCTTCTCGACCCCTCCGGGAGGCCTTCCCCACGG
 GATCGTGGGACTTTTACCAGATCGGTTTGTAAATAACACCTCGAAGACGCTATCCGATCCAT
 CAGGCCCAGTATTCTGTGTCGGGGGTACTTCCACAGTGTGCTGGAATGGTTATCAAAAG
 AAGGCTGTGCTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGAATCTGAGGATC
 GCCCCCTCCTGACAGAAGATTTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGCTCAACA
 CTGTCTCACCATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCC
 CTCAAAGAGAAGAAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCTTGATGGC
 CAGGAAAATAAAAGAAGCTGTCTTGTGCGACGGTCTCACTGATGCCTCTTCTGCATTCAAA
 GTTCTCTCGACCCGGGCCAGATACACTCCAGTTTACAGTGGATGTCTTCCACTTTGCTAAT
 GACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTACCCCTAGCTGAGCAGGAC
 CCAGATGAACTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAACAGCTGGTTCCAGTG
 GAAGGCCTGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACTCCAAGCCAT
 TCCAGGAGGCAGCCTCGTGTGCTGAGCCAGTGGTCCACGTCTGCTTCCAACCGCAGGCAT
 GTGACAGAAGAAGCAGATGTACCGTGGGGACTGATCTTCTTGACAGGAG

Gene 569. >ENST00000306803 cDNA sequence

ATGAATGGTGCCGGCCCTGGCCCCGCGCAGCCGCCCCGGTCCCAGTCCCAGTCCCAGTCC
 CCGGACTGGCGGCAGTTCTGCGAGCTGCATGCGCAGGCGGCGCCGCTGGACTTTGCGCAC
 AAGTTCTGCGGTTTCTGCGGGACAACCCAGCTTACGACACGCCCCGACGCGGCGCCTCC
 TTCTCCCCGCACTTTCGCGGCCAACTTCTGAGCGTCTTTCGCGCAGGAGGTGCGCCGCGTG
 CTGGTGGCTGGGCGGACGACTCGGGGCGCGGCCGTGAGCGCAGAGGCCATGGAGCCGGAG
 CTCGCGGACACCTCTGCACTCAAGGCGGCGCCCTACGGCCACTCGCGGAGCTCGGAGGAC
 GTGTCCACGCACGCGGCCACCAAGGCCGCGCTTCGCAAGGGCTTCTCGCTGCGCAACATG
 AGCCTGTGCGTGGTGGACGGCGTGCGGACATGTGGCACCGGCGCGCCTCGCCCCGAGCCC
 GACGCGGCAGCTGCCCCGCGCACCGCCGAGCCCCGCGACAAGTGGACGCGGCGCCTGAGG
 CTGTGCGCGGACGCTGGCTGCCAAGGTGGAGCTGGTGGACATTCAACGCGAGGGGGCGCTG
 CGCTTCATGGTGGCCGACGACGCGGCGCGGGCTCCGGGGGCTCGGCTCAGTGGCAGAAG
 TGCCGCCTGCTCCTGCGCAGGGCTGTGGCCGAGGAACGCTTCCGCCTGGAGTTCTTTCGTG
 CCGCCCCAAAGCCTCCAGGCCCAAGGTGAGCATCCCACTGTGAGCCATCATTGAGGTCCGC
 ACCACCATGCCCCCTGGAAATGCCAGAGAAGGATAACACATTCTGCTCTCAAGGTAGAGAAT
 GGAGCCGAATACATCTTGGAGACCATCGACTCTCTGCAAGCACTCGTGGGTAGCTGAC
 ATCCAGGGCTGCGTGGACCCCGGCCAGGATCACCTCCTTTAAATAACCCCTACCTCCA
 ATCGCCAGCAGACTCTGTGAGGCCTGCTCTATGGGGCCAGGGCCTGGGGACCTGGAAGGA
 AGTTGGACCAGGTCTTGTCTTCACCCCAAGAGAGCCTCAGAGCACTGGGAGTTGGGCAGA
 GATGGCAGTGAACGTACCTCTCTTCTCACATTTATTTATTTGTCCCCCTTTCTCCTTCC
 CCCCATGTTTCTCACACTGTCTATCCCCACCTCAGGGGAACAGGGTGCAGAGACGGATCCC
 GAGGCTGAACCCGAGCTGGAGCTATCCGACTACCCATGGTTCCACGGGACACTGTCCCGG
 GTCAAGGCTGCTCAACTGGTTCTGGCAGGGGGGCCCCGGAACACGGCCTCTTCTGTGATC
 CGCCAAAGTGAGACTCGGCCTGGGGAGTACGTGCTGACCTTCAACTTCCAGGGCAAGGCC
 AAGGCAAGTACCTGCGCCTGTCCCTGAACGGCCACGGCCAGTGTACGTACAGCATCTG
 TGGTTCCAGTCTGTGCTTGACATGCTCCGCCACTTCCACACACACCCCATCCCACTGGAG
 TCAGGGGGCTCGGCCGACATCACCTTTCGAGCTATGTGCGGGCCAGGACCCCCCACCA
 GAGCCGGGCCCCACGCCCCCTGCCGCGCCCGCGTCCCCGGCCTGCTGGAGCGACTCGCCC
 GGCCAGCACTACTTCTCCAGCCTCGCCGCGGCCGCTGCCGCGCTGCCTCGCCCTCCGAC
 GCCGCCGGCGCCTCCTCGTCTTCCGCCTCGTGTCTCTGCCGCGTGGGGCCCCGCCCCC
 CCGCGCCCCGTGAGGGCCAGCTCAGCGCGCGGAGCCGAGCAACAGCGCCGAGCGCCTG
 CTGGAGGCCGTGGCCGCCACCGCCGCGAGGAGCCCCGGAGGCCGCGCCCGCGCGCG
 CGCGCCGTGGAGAACCAGTACTCTTCTACTAG

Gene 570. >ENST00000331921 cDNA sequence

AAAAGGAAGAGGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT

FIGURE 1 (CONT'D)

GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
 CAGCGAGTGTTCATCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCT
 GGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTCTGGAAAAGGAAGATGGAGTGGTGG
 GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCTGAGCCTGAG
 GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
 TCGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTATT
 AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGGGACAAGTATCTCCTGGCTATG
 GTCATAGCGTATTTTCAAGCCGGGCTGGCTTCCCCTCCTGGCAATACCAACGCATTATTTC
 TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAAAAC
 ATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCGTTGG
 TTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTG
 CTCCGTAAGCGTCGGTTCCAGTTTATACCGTTCCACGAACCCGAGGGCCAGGAAGAACCGC
 TCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTTATACCGTTCCATGAACCTGAGG
 GCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGGTTCCACTTCTTCTGT
 TCCATGAGCTGCAGGGCTTGGGTTTCCCCAGAGGAGTTGGAGGAGATCCAGGCTTATGAC
 CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCACCTTTCCTAGAGCTCCAGGGACCGG
 GGAGGCCTGAGGTTCATCGGCCTGAGAGAAGAACAACCTGGACCCAGGGGAGATGTGGATTTT
 CAGCAGGAACCTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGAGGAACCATTT
 GTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGT
 TGTCTCTCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAGGAGTCCTTGGAG
 AAAAGTAAGAAACAGGAGCGTTTTCCAGTTCCACCCTTTCCTGCGGCACCACCACCTTT
 TTATATTGCTGAATTTCAACCTCCCTGGGGCGGAACCTGGAGGTCTGTTTTCTTACGGAC
 TTGCAGTCCAGGAGGATTTGAAGGCACAATGCAGGGGCTCAGATTGGGACAGAATTCTTT
 TGTGAAATATCAGTGCCACAGATTGTAACAGATAGCTTCATGCACACTCTGCATTTTATT
 GGTGTTGTTTGGAAAATGTTCGGCCATTGAATTATTTCATAGATTTATTTCAAATAGTTTGA
 AATTGTTGTACTTTTGAAGACATGCTGTTTCTGTAGTTTTTTGATGAGAGTTATAGTTGT
 TATATATACATAAAGATAATTTTCTTTTCAATTTTAAAGAGACAATTCTTTTATCCTAAAT
 ATTTTATTATCTTTAAATTTGTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCT
 TTTTATCTATGATACTTCCATAATAATCTCTTCTATTATATAGCTATTGGTAGTTCCCCAC
 CAGAAAAATACATAATTCTGGTGATAGAAATTTTATTTGCTGTTTAGGTTTGTGACTGA
 ATTTGTGAGAATTCAGTTGTGATTTTAAACATGTCTCAGATATATATACTAACACGTCTAA
 TATATACTATCTATTTTATTGGTTTATTTTGAAGAACATGGGTATAGAATTATTTAAATA
 TTATTTTATTTTAAATATTTTATTAATATATTTATTTTAAATATTATTTTACA
 TTAAATATTATTTTAAATATTTTGGAAATACTGGTATTTTGAATAGATGCTGTTTCTAC
 AAAGCTGTGTGATGGGTATTATAACTGTTATATACACATACATATAATTTGTTTTCTT
 TTTAAGAGAGGATTCTTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATT
 ACACGTGCTGCTGAAGGGAGCATGGATTTTATCTATGATACTTAGTTAACATATATATTA
 CATTTATAGCTATGTAGTAGTTCCCTAAATCTTGTAAAAATAAATTTTTATTG

Gene 571. >ENST00000332533 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTCTGGAAAAGGAAGATG
 GAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCT
 GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
 CGGCGAGTGTGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
 CCTGTATTAAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGGGACAAGTATCTC
 CTGGCTATGGTCATAGCGTATCAGCCGGGCTGGCTTCCCCTCCTGGCAATACCAACGCAT
 TCATTTCTTCTGGCTCTGTG

Gene 572. >ENST00000275621 cDNA sequence

GGCCAGGCCGCGCCCCCGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCGTA
 CTCCTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTGCGAGCTC
 ATGGGGCTGTGCGGTGTTGCTTGGGCTGCTGGCCCTGATGGCGACGGCGGCGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCCGGCCCTGCCAAAAGCAAATGGA
 TTTCCACCTGACAAATCTTGGGATCCAAGAAGCAGAAACAATATCAGCGGATTCGGAAG
 GAGAAGCCTCAACAACACAACCTTACCCACCGCCTCCTGGCTGCAGCTCTGAAGAGCCAC
 AGCGGGAACATATCTTGCATGGACTTTAGCAGCAATGGCAAATACCTGGCTACCTGTGCA

FIGURE 1 (CONT'D)

GATGATCGCACCATCCGCATCTGGAGCACCAAGGACTTCCTGCAGCGAGAGCACCGCAGC
 ATGAGAGCCAACGTGGAGCTGGACCACGCCACCCTGGTGCGCTTCAGCCCTGACTGCAGA
 GCCTTCATCGTCTGGCTGGCCAACGGGGACACCCTCCGTGTCTTCAAGATGACCAAGCGG
 GAGGATGGGGGCTACACCTTCACAGCCACCCAGAGGACTTCCCTAAAAAGCACAAGGCG
 CCTGTATCGACATTGGCATTGCTAACACAGGGGAAGTTTATCATGACTGCCTCCAGTGAC
 ACCACTGTCTCATCTGGAGCCTGAAGGGTCAAGTGCTGTCTACCATCAACACCAACCAG
 ATGAACAACACACACGCTGCTGTATCTCCCTGTGGCAGATTTGTAGCCTCGTGTGGCTTC
 ACCCCAGATGTGAAGGTTTGGGAAGTCTGCTTTGGAAAGAAGGGGGAGTTCCAGGAGGTG
 GTGCGAGCCTTCGAACATAAGGGCCACTCCGCGGCTGTGCACTCGTTTGCTTTCTCCAAC
 GACTCACGGAGGATGGCTTCTGTCTCCAAGGATGGTACATGGAACTGTGGGACACAGAT
 GTGGAATACAAGAAGAAGCAGGACCCCTACTTGCTGAAGACAGGCCGCTTTGAAGAGGCG
 GCGGGTGCCGCGCCGTGCCGCTGGCCCTCTCCCCAACGCCAGGTCTTGGCCTTGGCC
 AGTGGCAGTAGTATTTCATCTCTACAATACCCGGCGGGGCGAGAAGGAGGAGTGCTTTGAG
 CGGGTCCATGGCGAGTGTATCGCCAACCTTGTCCTTTGACATCACTGGCCGCTTTCTGGCC
 TCCTGTGGGGACCGGGCGGTGCGGCTGTTTCAACAACCTCCTGGCCACCGAGCCATGGTG
 GAGGAGATGCAGGGCCACCTGAAGCGGGCCTCCAACGAGAGCACCCGCCAGAGGCTGCAG
 CAGCAGCTGACCCAGGCCCAAGAGACCCTGAAGAGCCTGGGTGCCCTGAAGAAGTGACTC
 TGGGAGGGCCCGGCGCAGAGGATTGAGGAGGAGGGATCTGGCCTCCTCATGGCACTGCTG
 CCATCTTTCTCCAGGTGGAAGCCTTTGAGAAGGAGTCTCCTGGTTTTCTTACTGGTGG
 CCCTGCTTCTTCCATTGAACTACTCTTGTCTACTTAGGTCTCTCTCTTCTTGCTGGCT
 GTGACTCCTCCCTGACTAGTGGCCAAGGTGCTTTTCTTCTCCAGGCCAGTGGGTGGA
 ATCTGTCCCCACCTGGCACTGAGGAGAATGGTAGAGAGGAGAGAGAGAGAGAGAATG
 TGATTTTTTGGCCTTGTGGCAGCACATCCTCACACCCAAAGAAGTTTGTAAATGTTCCAGA
 ACAACCTAGAGAACACCTGAGTACTAAGCAGCAGTTTTGCAAGGATGGGAGACTGGGATA
 GCTTCCCATCACAGAACTGTGTTCCATCAAAAAGACACTAAGGGATTTCTTCTGGGCCT
 CAGTTCTATTTGTAAGATGGAGAATAATCCTCTCTGTGAACCTCTTGCAAAGATGATATG
 AGGCTAAGAGAATATCAAGTCCCCAGGTCTGGAAGAAAAGTAGAAAAGAGTAGTACTATT
 GTCCAATGTATGAAAGTGGTAAAAGTGGGAACCAAGTGTGCTTTGAAACCAAATTAGAAA
 CACATTCTTTGGGAAGGCAAAGTTTTCTGGGACTTGATCATATTTTATATGGTTGGGA
 CTTTCTCTCTTCGGGAGATGATATCTTGTTTAAGGAGACCTTTTTTCAGTTCATCAAGTTC
 ATCAGATATTTGAGTGCCCACTCTGTGCCCAAATAAATATGAGCTGGGGATT

Gene 573. >ENST00000305632 cDNA sequence

GGCCAGGCCGCGCCCCCGCTGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCGTA
 CTCACTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTGCGAGCTC
 ATGGGGCTGTGCGGTGTTGCTTGGGCTGCTGGCCCTGATGGCGACGGCGGCGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCCGCCCTGGCCCAGGAGCTTTTTTT
 CCTGTTGGAATTGGGGAGCATCTGCAGTCATTTACCACATGCCAGCTTTGTGACTCAATT
 AAGTATCTTTTACAAAAGTGA

Gene 574. >ENST00000316899 cDNA sequence

AGTTCTACCCGCGAGAGGGAAGAAGCAGGAGGTCTCAGCATGAAACAGCAGCAGTGGTG
 TGGGATGACTGCCAAAATGGGCACCGTGTGTGTCAGGGGTCTTCACCATCATGGCCGTAGA
 CATGTATCTCATCTTTGAACAGAAGCACCTAGGGAATGGCAGTTGCACTGAGATCACACC
 AAAGTACAGGGGTGCAAGTAACATCATAAATAACTTCATCATCTGCTGGAGTTTTAAAT
 CGTCCTCTTCTGTCTTTTCATCACCATCCTTCATCAGCTGCTTCTCCTGTACTCAGTGTA
 TGCCAGATCTTCAGGGGCTGGTCATCTACATTGTCTGGATTTTTTTCTATGAACTGC
 AAACGTGTAATACAAATCCTCACCAACAATGACTTTGACATTAAAGAGGTGAGAATCAT
 GCGCTGGTTTTGGCTTGGTGTCTCGTACAGTCATGCACTGTTTCTGGATGTTCTTTGTCAT
 CAACTATGCCACATAACCTACAAAAACCGGAGCCAGGGCAATATAATTTCTACAAAGAG
 ACGAATTTCTACAGCGGAGATTCTCCACAGCAGAAATAAAAGATTATCAATTTTCGAGTGG
 GTTCAGTGGCTCACACCTGGAATCCAGTACTTTGAGAGGCAGAGGAGGTGCTCTGGTAA
 AACAAGTATAAAATGAATGTGAGGATGTTCTCCCTCATGGTGGGCATCTTCTCTGTCTT
 AATACCACCCAGTTCTTCATCTTTGACCTGAACCAGAAGACACACATTTGCTATGAGGCC
 AAGTTCAGCATCTACGTGGACTCAAAGTCGGAGCTAGTCACTTGACCCCTGTTCCACAGG
 GCTAATATCAGCACTGGCCTCTCCCTCACCAACCATCATCATCGGCTGCTTCTCTTTTAT

FIGURE 1 (CONT'D)

TGTATCCACAAGAATATCTACATGGGGCTGCTGATCTATGCCATGTGGATCATCACTTAC
GAGCTCATCAACTTCTCCATAGTCCTGCTCCTCAACGGGATCATCAAAGATCACTTCAAG
ACGCTGAGTTATTTGCACTGGATCTTCCAAATCTCACACATGCTCCTGCACCTTTTCTGT
CTGCCCTTCATCGTCAAGCATGCATACAACCTTTACAAGGAATCCCAGACTGTGGGCAGG
AAACGCCGCCACAGGCTCTGCTCCACCATTGCAGTGAACCTCATGACTACCTGTCCGTCTG
GGAATGTTGTACCGGAAGTTAAACTGAACCATGCCAGATGCCAGGAAAGGTGGGAGGGAA
TGGTGTTCCTCAACAATGGAACCTCCCTACCTGCCTGTCTTCTGTTGATGCTGCTTGG
TTTGTGAGGGCTTTTGAGTTTTACGCACTGAGGAATGATTCTCGGGAGAGGGCAGGTTGT
GCGGATCAATTATTTTACAGATGTGTTGTGTGACTTGTTTTAGCAGTTAATGATATGTGG
CCTTGTGCTTACTTAACCATC

Gene 575. >ENST00000316909 cDNA sequence

AGTTCCTACCCGCGAGAGGGAAGAAGCAGGAGGTCTCAGCATGAAACAGCAGCAGTGGTG
TGGGATGACTGCCAAAATGGGCACCGTGTTGTGAGGGGTCTTCACCATCATGGCCGTAGA
CATGTATCTCATCTTTGAACAGAAGCACCTAGGGAATGGCAGTTGCACTGAGATCACACC
AAAGTACAGGGGTGCAAGTAACATCATAAATAACTTCATCATCTGCTGGAGTTTTAAAT
CGTCCTCTTCTGTCTTTTATCACCATCCTCATCAGCTGCTTCTCCTGTACTCAGTGTA
TGCCCGATCTTCAGGGGCTGGTTCATCTACATTGTCTGGATTTTTTTTCTATGAACTGC
AAACGTCGTAATACAAATCCTCACCAACAATGACTTTGACATTAAAGAGGTGAGAATCAT
GCGCTGGTTTTGGCTTGGTGTCTCGTACAGTCATGCACTGTTTCTGGATGTTCTTTGTCT
CAACTATGCCACATAACCTACAAAAACCGGAGCCAGGGCAATATAATTTCTACAAGAG
ACGAATTTCTACAGCGGAGATTCTCCACAGCAGAAATAAAAGATTATCAATTTGAGTGG
GTTTCACTGGCTCACACCTGGAATCCCAGTACTTTGAGAGGCAGAGCTTCCACACTAGCAT
ATTTACCTGTCTGTCTCCAGTGCCAAGCTCAGCCCCAGCACCTGTAGATACACAATAGA
TGTCTGCTGAGAGGTGCTCTGGTAAAAACAAGTATAAAATGAATGTGAGGATGTTCTCCCT
CATGGTGGGCATCTTCTCTGTCTTAAATACCAACCCAGTTCTTCATCTTTGACCTGAACCA
GAAGACACACATTTGCTATGAGGCCAAGTTCAGCATCTACGTGGACTCAAAGTCGGAGCT
AGTCACTTGGACCCTGTTCCACAGGGCTAATATCAGCACTGGCCTCTCCCTCACCACCAT
CATCATCGGCTGCTTCTCTTTTATTGTATCCACAAGAATATCTACATGGGGCTGCTGAT
CTATGCCATGTGGATCATCACTTACGAGCTCATCAACTTCTCCATAGTCTGCTCCTCAA
CGGGATCATCAAAGATCACTTCAAGACGCTGAGTTATTTGCACTGGATCTTCCAAATCTC
ACACATGCTCCTGCACTTTTTTCTGTCTGCCCTTCATCGTCAAGCATGCATACAACCTTTA
CAAGGAATCCCAGACTGTGGGCAGGAAACGCCGCCACAGGCTCTGCTCCACCATTGCAGT
GAACTCATGACTACCTGTCCGTCTGGGAATGTTGTACCGGAAGTTAAACTGAACCATGCC
AGATGCCAGGAAAGGTGGGAGGGAATGGTGTTCCTCAACAATGGAACCTCCCTACCTG
CCTGTCTTCTGTTGATGCTGCTTGGTTTTGTGAGGGCTTTTGAGTTTTACGCACTGAGGAA
TGATTCTCGGGAGAGGGCAGGTTGTGCGGATCAATTATTTTACAGATGTGTTGTGTGACT
TGTTTTAGCAGTTAATGATATGTGGCCTTGTGCTTACTTAACCATC

Gene 576. >ENST00000259722 cDNA sequence

CCCGAGAGGAGTCGGTGGCAGCGGCGGGCGGGACCGGCAGCAGCAGCAGCAGCAGCAG
CAGCAGCAACCACTAGCCTCCTGCCCCGCGGCGCTGCCGCACGAGCCCCACGAGCCGCTC
ACCCGCGCGTTCTCAGCGCTGCCCGACCCCGCTGGCGCGCCCTCCCGCCGCGCAGTCCCGG
CAGCGCCCTCAGTTGTCTCCTCCGACTCGCCCTCGGCCTTCCGCGCCAGCCGAGCCACAGC
CGCAACGCCACCCGAGCCACAGCCACAGCCACAGCCCGAGGCATAGCCTTCGGCACAGC
CCCGGCTCCGGCTCCTGCGGCAGCTCCTCTGGGCACCGTCCCTGCGCCGACATCCTGGAG
GTTGGGATGCTCTTGTCCAAATCAACTCGCTTGCCACCTGCGCGCCGCGCCCTGCAAC
GACCTGCACGCCACCAAGCTGGCGCCCGGCAAGGAGAAGGAGCCCTGGAGTCGAGTAC
CAGGTGGGCCCCGCTACTGGGCAGCGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTC
TCCGACAACCTTGCCGGTGGCCATCAAACACGTGGAGAAGGACCGGATTTCCGACTGGGGA
GAGCTGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCTGCTGAAGAAGGTGAGCTCG
GGTTTCTCCGGCGTCATTAGGCTCCTGGACTGGTTTCGAGAGGCCCGACAGTTTCGTCTCTG
ATCCTGGAGAGGCCCGAGCCGGTGCAAGATCTCTTCGACTTCATCACGGAAGGGGAGCC
CTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGC
CACAACCTGCGGGGTGCTCCACCGCGACATCAAGGACGAAAACATCCTTATCGACCTCAAT
CGCGGCGAGCTCAAGCTCATCGACTTCGGGTGGGGGCGCTGCTCAAGGACACCGTCTAC

FIGURE 1 (CONT'D)

ACGGACTTCGATGGGACCCGAGTGTATAGCCCTCCAGAGTGGATCCGCTACCATCGCTAC
CATGGCAGGTTCGGCGGCAGTCTGGTCCCTGGGGATCCTGCTGTATGATATGGTGTGTGGA
GATATTCCTTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGGTTTTCTTCAGGCAGAGG
GTCTCTTCAGAATGTGAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGG
CCAACCTTCGAAGAAATCCAGAACCATCCATGGATGCAAGATGTTCTCCTGCCCCAGGAA
ACTGCTGAGATCCACCTCCACAGCCTGTGCGCGGGGGCCAGCAAATAGCAGCCTTTCTGG
CAGGTCTCTCCCTCTCTTGTGATGCCCCGAGGGAGGGGAAGCTTCTGTCTCCAGCTTCC
CGAGTACCAGTGACACGTCTCGCCAAGCAGGACAGTGCTTGATACAGGAACAACATTTAC
AACTCATTCCAGATCCCAGGCCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTC
TCCAGGGGTCTAGGCCTCAACTCCTCCCATAGATACTCTCTTCTTCTCATAGGTGTCCA
GCATTGCTGGACTCTGAAATATCCCGGGGGTGGGGGGTGGGGGTGGGTGAGAACCTGCC
ATGGAAGTGTTCCTTCATCATGAGTTCTGCTGAATGCCGCGATGGGTGAGGTAGGGGGG
AAACAGGTTGGGATGGGATAGGACTAGCACCATTTTAAGTCCCTGTACCTCTTCCGACT
CTTTCTGAGTGCCTTCTGTGGGGACTCCGGCTGTGCTGGGAGAAATACTTGAACCTGCCT
CTTTTACCTGCTGCTTCTCCAAAATCTGCCTGGGTTTTGTTCCCTATTTTTCTCTCCTG
TCCTCCCTCACCCCTCCTTCATATGAAAGGTGCCATGGAAGAGGCTACAGGGCCAAACG
CTGAGCCACCTGCCCTTTTTTCTGCCTCCTTTAGTAAAACTCCGAGTGAAGTGGTCTTCC
TTTTTGGTTTTTACTTAACTGTTTTCAAAGCCAAGACCTCACACACAAAAAATGCACAA
ACAATGCAATCAACAGAAAAGCTGTAAATGTGTGTACAGTTGGCATGGTAGTATACAAAA
AGATTGTAGTGGATCTAATTTTTTAAGAAATTTTGCCTTTAAGTTATTTTACCTGTTTTTG
TTTTCTGTTTTGAAAGATGCGCATTCTAACCTGGAGGTCAATGTTATGTATTTATTTATT
TATTTATTTGGTTCCCTTCTATTCCAAGCTTCCATAGCTGCTGCCCTAGTTTTCTTTCC
TCCTTTCTCCTCTGACTTGGGGACCTTTTTGGGGGAGGGCTGCGACGCTTGCTCTGTTTG
TGGGGTGACGGGACTCAGGCGGGACAGTGCTGCAGCTCCCTGGCTTCTGTGGGGCCCCCTC
ACCTACTTACCCAGGTGGGTCCCGGCTCTGTGGGTGATGGGGAGGGGCATTGCTGACTGT
GTATATAGGATAATTATGAAAAGCAGTTCTGGATGGTGTGCCTTCCAGATCCTCTCTGGG
GCTGTGTTTTGAGCAGCAGGTAGCCTGCTGGTTTTATCTGAGTGAAATACTGTACAGGGG
AATAAAAGAGATCTTATTTTTTTTTTTTATACTTGGCGTTTTTTGAATAAAAACCTTTTGT
CTT

Gene 577. >ENST00000243720 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGCAGGTCCCAGCGGGTTCGCGCCAGCCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTCACTCCACAGCGGTCACTTCATGGTGTGCTCGCCGCACAGCGACTCGCTGCCCGGG
CGGCGCGACACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTC
CTGGAGGGGAACTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCCCGCGGAGCAATGGTGCAAAACAGCTCTTCTCCAGT
GTGGTCCCCGTGCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTACCATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTGGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCTCCACAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGGAATCCAGCGCCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCACTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACTCCCTTCCCTCCCATGGCACCACCCACTGCTTTG
CTGCAGGAAGAGCCTCTCTTCTCTCCAGGTTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCACAGTCTGTCCCCAGC

FIGURE 1 (CONT'D)

CCAGCCCCACCCCCTTCCCCATAGAGCTTCTACCCCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAAC
AACCCCTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGATCCAGCACCCTCCTCCGGTCCCCAGGGTCCCCGCAGGAGACAGTCCCTGAATTC
CCCTGCACATTCTTCCCCCGACCCCCGGCCCCCTACACCGCCCCGGCCACCTCCAGGCCCCG
GCCACATTGGCCCCCTTCCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCA
GCGCCAGCGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGG
ACTCTGAGCGTCCGTGTCTCTCCCCCGCAACCCATCCTCAGCCGGGGCCGTCCAGACAGC
AACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGGCGCTTCAAC
ATCAAGCTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGC
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAG
CAGGAGCGTGCGGGCTTGAGGAGGAGGCCCCAGCAGCTGCGGGATGAGATTGAGGAGCTC
AATGCCGCCATTAACTGTGCCAGCAGCAGCTGCCCGCCACAGGGGTACCCATCACACAC
CAGCGTTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGTACGCTGCAC
AACTGGAAGTTCTGGGTGTTTTCAGCATCCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAG
TACTGCTCTCTGCCCCGCTCTCCGGCCAACCTGTCTGAACTCCCTACGCCAGCTGGGCACA
TCTACAGTATCCTGACCGACCCGGGCGGCATCCCTGAGCAAGCCACACGGGCAGTCACA
GAGGGCACCCCTTGCCAAACCTTTATAGTCTTGCCAGACCTGCTGCTCACTCAGCTGCC
CTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTCTG
CCCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTCACACTTG
CCACCTCCTGGAGGTCAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAG
CACCGTGACCTTGGGTGACTCGTCCGCTGTCTTTGGACCGCTGTGTTTCAATCTGCAAAA
TGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTGTGACATTGG
GGGCCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTG
TCACCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTGAGCAGAGAAGCA
GAAAAGGAGGTTCCCTCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGT
TTCCCTGAGGAGGCCAGGAGGGCCTGATCCCAGGAGACACCAGGGCCAGAGTGACCAC
AGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGTTTTGTAAAG
AATTCTTGACCAATAAAAGCAAAAACCTGTCTGCTGGTT

Gene 578. >ENST00000313375 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGACAGTCCCAGCGGTCGCGCCAGCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTCACTCCACAGCGGTCACTTCATGGTGTGCTCGCCGCACAGCGACTCGCTGCCCGCG
CGGCGCGACACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCAGTGTCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTC
CTGGAGGGGAATACTGGAAGCGGCGCATCGAGGTGGTGTGATGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCCCGCGGAGCAATGGTGCAAAACAGCTCTTCTCCAGT
GTGGTCCCCGTGCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTACCATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCCTCCACAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGGAATCCAGCGCCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCACTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACCTCCCTTCCCTCCCATGGCACCACTGCTTTG

FIGURE 1 (CONT'D)

CTGCAGGAAGAGCCTCTCTTCTCTCCCAGGTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCCACCCACCCACAGTCTGTCCCCAGC
CCAGCCCCCACCCTTCCCCATAGAGCTTCTACCTTGGGGTATTGAGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAAC
AACCCTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGGCAGTGAACGGCGGTGTGAG
GGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAAC
CCATCCTCAGCCGGGGCCGTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACA
TCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGC
TCGTGAGCACACTCAGTGCCAGCCAGCCTCAAGGTGAGCAAGCTACCACGCTGCAGA
AGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGCTTGAGGAGGAGGCC
AGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACTGTGCCAGCAGCAGC
TGCCCGCCACAGGGGTACCCATCACACACCAGCGTTTTGACCAGATGCGAGACATGTTTG
ATGACTACGTCCGAACCCGTACGCTGCACAACTGGAAGTTCTGGGTGTTGAGCATCCTCA
TCCGGCCTCTGTTTGGAGTCTTCAACGGGATGGTGTCCACGGCAAGTGTGCACACCCTCC
GCCAGACCTCACTGGCCTGGCTGGACAGTACTGCTCTCTGCCCGCTCTCCGGCCAACTG
TCCTGAACTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGCA
TCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCCT
GGCCAGACCCTGCTGCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCC
AGGGATCATCTCTGGGCACTCCCTTCCCTGCCCCAGGCCCTGGCTCTGCCCTTCCCTGGGG
GGTGGAGCAGGGTCCAGGTTTCACTTGGCACCTCCTGGAGGTCAAGAAGAGCAGAGTC
CCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGTC
TTTGGACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGA
CCCCCAGGCCTTGGCAGCTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAAC
GGTGGAAAGAGGAGGATGCTGTTTCTCTGTACCTCCACTTGCTCCCCGACAGGTGGGGC
ACAGACCTCTGTTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTCTGCTCCTTCA
CTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCCTGGGAGAGGCCAGGAGGGCCTGATC
CCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGT
GTGGATGTGTGTGTGTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAAAGTGTCT
GCTGGTT

Gene 579. >ENST00000223368 cDNA sequence

GGGGGCGACGGCCGCTGTGACGCTGCGGCGGGCGGGCGGGCGGGCGCGTGAGGCGC
GCGATCCCCGGTGTCTTGGGAGCAGTGCCCCGGCCCCCGCCGCTCCCGCCCGCCCATGT
CGGGCCGGTCCGTCCGGGCGGAGACCCGAGCCGGGCCAAGGACGACATCAAGAAGGTGA
TGGCGGCCATCGAGAAAGTGCGGAAATGGGAGAAGAAGTGGGTGACTGTGGGTGACACGT
CCCTGAGGATATTTAAGTGGGTTCTGTGTACAGACAGCAAGGAGAAAGAAAAGTCAAAAT
CGAACAGTTTCAAGCAGCCCGAGAACCTAATGGCTTTTCTTCTGATGCCTCAGCCAATTCT
CTCTCCTTCTTGAATTCAGGACGAAAACAGCAACCAGAGTTCCGTGTCTGACGTCTATC
AGCTTAAGGTGGACAGCAGCACCAACTCAAGCCCCAGCCCCCAGCAGAGTGAGTCCCTGA
GCCCAGCACACACTCCGACTTCCGCACGGATGACTCCAGCCCCCAACGCTGGGCCAGG
AGATCCTGGAGGAGCCCTCCCTGCCCTCCTCGGAAGTTGCTGATGAACCTCCTACCTCA
CCAAGGAAGAACCAGTTCCACTAGAGACACAGGTCGTTGAGGAAGAGGAAGACTCAGGTG
CCCCGCCCCCTGAAGCGCTTCTGTGTGGACCAACCCACAGTGCCGCAGACGGCGTCAGAAA
GCTAGCACCATCCCGGCCCTCCGCCTCCTGGCCCTGCCTCTATTTATTGCATTCTGGTTT
TGGCCGCGCCGCGTTGCTGGGGTAAGGGCAAGCACTGGGGTCAAGAGCCTGCACACATGA
GCCTTCCGGGCTGGAAGGCTGGCGTAGGACTTGGGGCTGTAGCATCATCTTCTGACCCT
GGCACCTGTGTCTACTTGCTCCCGAGAAGAGGAGCGCTCATGTCTTTTTTGACCCCAAG
TTGGCTGGAGCATCGGCCACCCCAAGATTCATCTGTGACCTCCAGGCAGCAGTCTCTGCT
CCAGAATCTCTGGACGGAGCTGCTGGCAGCTTCTGCGAGAAGAGAGAGATGTGGAAGGCA
CCTTCTAGAAGAGAGCGTGCCTCAGGTTACTTGAACCTTGAACGGAGACTGTAGACTCCCG
GACTTTCCCTAGGACTGGGGGCCCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATT
GGAGGGAAGGGAAGGGCTTTTCTCCACACAAGGGCAGAGAGTCCGTCTAGATTTCTTGCT
GTCCTGCCAGCTCTGCCCATGCCTGAGGTGGTCTACCTCTCACGGGCACCCTAGCTGCT

FIGURE 1 (CONT'D)

GACAGCCCTTTGTGGCCGCCGTCCCCATCCCCTGCCCTCAGCACACACATCTGCACACAC
GCAGCTTTGTTCTCACCTCTACCTGTCAATCCAGCATCCCTGCCTCTTGTCAAACTGC
CCCAGCAAGAATTTGAGGTTCTGACAACAGTACCCATCCCCACAGTACCCCTTCAGCTC
AGTTTCTAGAAAGCTCCCTTTTCTTTGAAATCTGCATGTTGAATTGAACTTTGTGATTTT
ATTTTTTGTTCAAAAAGTTTAAGAAAATGGAAATGGGCAACAGTGAGTGAAGACATAT
TTTAGCACTGAATAGAATATTTTTTAAATTTAACTATTTGAAATATG

Gene 580. >ENST00000257632 cDNA sequence

ATGGGGCTACCTGGGGGAGCCTCACCTAGGGCTGCAGATGCTCCTCCTGGCGTTGAAC
TGTCTCCGGCCCAGCCTGAGCCTGGGTGAGTGGGGGTCTGGATGGACGCGTCCAGCCAG
ACCCAAGGGGCTGGGGGCCCTGCTGGAGTGATTGGACCCTGGGCGCCCGCCCCCTCCGA
TTGGGAGAGGCAGCCCCAGGGACCCCCACGCGCTCTCCGTGGCTCACCTTTTGTCCCC
GTGGCCACAGAGCTGGTGCCTACACACCACAGATAACAGCTTGGGACCTGGAAGGGAAG
GTCACAGCCACCACCTTCTCCCTGGAGCAGCCGCTGTGTCTTCGATGGGCTTGCCAGC
GCCAGCGATACCGTCTGGCTCGTGGTGGCCTTCAGCAATGCCTCCAGGGGCTTCAGAAC
CCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTACATG
ACGCTGCCCCCTGTCTCCGGACCAGCTGCCCTGTGGCGACCCCATGGCGGGCAGCGGAGGC
GCCCCCGTGTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAGCCCTTCTGCAACGCG
CCCCTCCCTGGCCCTGGACCCTATCGGGAAGACCCCCGGATCCATCGACACCTGGCCAGG
GCGGCGAAGTGGCAGCATGATCGTCATTACCTCCATCCTCTCTTCTCTGGCCGGCCTCCT
ACTCTTGGCCTTCTTGGCAGCCTCTACCATGCGCTTCTCCAGCCTGTGGTGGCCGGAGGA
GGCCCCGGAGCAGCTGCGGATCGGCTCCTTCATGGGCAAGCGCTACATGACCCACCACAT
CCCACCCAGAGAGGCCGCCACACTGCCGGTGGGCTGCAAGCCTGGCCTGGACCCCTCCC
CAGCCTCAGCCCCTAGCCTGGCCTCTTTCATGGGGCTGGGGGAGATGGGGCGCTGGGAG
TGA

Gene 581. >ENST00000334348 cDNA sequence

ATGGGGCTACCTGGGGGAGCCTCACCTAGGGCTGCAGATGCTCCTCCTGGCGTTGAAC
TGTCTCCGGCCCAGCCTGAGCCTGGAGCTGGTGCCTACACACCACAGATAACAGCTTGG
GACCTGGAAGGGAAGGTACAGCCACCACCTTCTCCCTGGAGCAGCCGCGCTGTGTCTTC
GATGGGCTTGCCAGCGCCAGCGATAACCGTCTGGCTCGTGGTGGCCTTCAGCAATGCCTCC
AGGGGCTTCCAGAACCCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACC
GATGGCCACTACATGACGCTGCCCCCTGTCTCCGGACCAGCTGCCCTGTGGCGACCCCATG
GCGGGCAGCGGAGGCGCCCCCGTGTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAG
CCCTTCTGCAACGCGCCCCCTCCCTGGCCCTGGACCCTATCGGGTGAAGTTCTCCTGATG
GACACCAGGGGCTACCCAGGGCTGAGACCAAGTGGTCAAGCCCATCACTCTCCACCAA
GGGAAGACCCCGGATCCATCGACACCTGGCCAGGGCGGCGAAGTGGCAGCATGATCGTC
ATTACCTCCATCCTCTCTTCTCTGGCCGGCCTCCTACTCTTGGCCTTCTTGGCAGCCTCT
ACCATGCGCTTCTCCAGCCTGTGGTGGCCGGAGGAGGCCCGGAGCAGCTGCGGATCGGC
TCCTTCATGGGCAAGCGCTACATGACCCACCACATCCCACCCAGAGAGGCCGCCACACTG
CCGGTGGGCTGCAAGCCTGGCCTGGACCCCTCCCCAGCCTCAGCCCCTAG

Gene 582. >ENST00000329536 cDNA sequence

ACTGCCCTGGCTTCTGCGCCTCTTCAGGTCATCGCTTGCTCTCGTTCCCAGGCTTTGGC
CTCTAGTGAGACGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACTGCCCGGGCCAGCAC
CTAGGCGGGCGGGAGCTGTGCGGCCAGGGTTACGCGGGCGGGTAGAGGCTCGAGCCG
GGACCCCGAGGCGGATCTGGGCCCCGAGAAGGACCCCGCCTGGATTTGCCCCGTAGGC
CCGGCCCCGGGCCCCCTCGGGAGCAGAACAGCTTTGGTGAGGTGGACAGGAGGTGACCTCGC
GAGCAGACGCGCGGCCAGCAGCAGCAGCCCCCGCCCGCCTCTCGGGAGCCGTGGGGCAG
AGGCTGCGGAGCCCCAGGAGGGGCCGGAGCCCTCATGACTTCAGTGACCTGCTTCTGCCC
CTCTAGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACAT
TGCAGGGGCCAGTGTCATTCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGCAGC
AACTGGACCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATC
TAGTTTCTGTGGGTATGATTATCACCAAGCCAAACATCATCATGGAGTGGAGGTGAAGG
AAGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTC
CAGGTAAGTTAGTAGATTATCACATGTTAAAAACACT

Gene 583. >ENST00000262936 cDNA sequence

FIGURE 1 (CONT'D)

ATACTTGC GCGCCGACGCGCGCGCTCGCTTGTGAAACTGGAAGGCTGCCATGGCTAGCCC
 AGCCGCCTCCTCGGTGCGACCAACGAGGCCAAGAAAGAGCCGAGACGCTCGTCATCCC
 CAAGAATGCGGCGGAGGAGCAGAAGCTCAAGCTGGAGCGGCTCATGAAGAACCCGGACAA
 AGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGACCTCCCCAGAATTTGT
 CCGAGATGTCATGGGTTCAAGTGCTGGGGCCGGCAGTGGAGAGTTCCACGTGTACAGACA
 TCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAA
 ATTGGATGCAGAGTTTCAGAAAAGACTGGAAAAGAATAAAATTGCTGCAGAGGAGCAGAC
 CGCAAAGCGCCGGAAGAAGCGCCAGAAGTTAAAAGAGAAGAAATTAAGTGGCAAAGAAGAT
 GAAACTTGAACAGAAGAAACAAGAAGGACCCGGTCAGCCCAAGGAGCAGGGGTCCAGCAG
 CTCTGCGGAGGCATCTGGAACAGAGGAGGAGGAGGAAGTGCCAGTTTCACCATGGGGCG
 ATGACAATGTTTTGCCACAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAA
 AGGCGGCTGTTTTGGCTCTTTCTCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCA
 AAGGAGACCCCTCCCGAGCCGCTCACAGTCTGTATTGTCAGGTTTGGGAGCCTGAGGG
 GCCATCTCCCTGACACTCAGAGGCACTGCCTTGACAGACACCATCCGTGCTCCTGGTAAAG
 GGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTTTC
 TGGGAAGGGAAACGTTTATTTAGTAAAGAGCAGAACACCCCTTGCGTTTTGTTGGGACATGT
 GGACCGTGAGTCGCAAACTCTGGAGAAGGCTGAGATGCCACCATTCCACGGGGACTG
 AAGACACATTACGTGGACCTGGTCCCAGGCTCAGTGAGGAGATGGCCTCAGCTGTGGGGC
 TGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAAGCCATAGAGGGTCTGCT
 CCCACTGCAGCTCCCGGTGCTCTCGTGTTCTGGGAAGGCCTGGGTGTGTGCACAAGGAGG
 CCCGGGCCAGGGACTTCACAGGGGCTGGGTACAAGGGCACAGGGTGTGTGAAAGCGC
 TGTGGGGGAAGAGCCGGTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGC
 CAGAGCAGAAGGCGAGGGATTCCAGCCGGACGGGGTTCTCTACCAACAGCTGTGATT
 TCATCCCGAAGTGGAAGGGGGTCTAAACAGAACAGGCTGAGAGAGGCGGGACTGGGTCAA
 GTGGGTGGAGCTCCTCCTTGATGACTGCAACTGTGCGGGCTTTCCGCCGGCTCACAGCA
 GTTGGGGCCAGCGGGGAGAAGAGAGGCGGAAGTGTGTCTCATGTGGCGCAGCCTCA
 AACTGGCATCCAGGCACTGGGCCCATGCAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCC
 GGCGCAGGGGCATGCGCCTAGAATCCAGCTACTCGGAAGGCCAAGGCAGGAGGACCGCT
 TGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGACCTGTCTCTTAAAAAAC
 GATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCTGGGAGGAGC
 CGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTA
 GTTAGAGCCTTGGCTCCATTTTTGATGATTTAGCCCCGAGTTCTGAGTCTATTTTATG
 CCCCTTACGTACTTTGATAGAACTAAGGAAATAGTGGTTTTGAGTGAAGGGAAAGGAAAC
 CCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTGCCCCGGCCCCCTCTCTGA
 GCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTTTCATGTACAGGGATTTTCT
 TTCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTAC
 ATTTTGAAACCTG

Gene 584. >ENST00000265301 cDNA sequence

GCACCACAACAACCTGTGGCACTGAATGGCGGTAGAAGATGGCAGCCTGAAATGATCTT
 GAAGGAAGCCATTGAAAACCATCAGAACATGATTAAGCAGTTTAAAG

Gene 585. >ENST00000297873 cDNA sequence

CCCGAGTCCTGTTGCCACACGCCCCGAGGCGCGCTGGATTGGCGGAGCATGGCCCAGGAG
 GAGGGTGGGAGCCTGCCCGAGGTGCGGGCGCGGTGAGGGCCGCGCATGGCATCCCCGAC
 CTGGCCCCAAAAGCTCCATTTCTATGACCGCTGGGCTCCGGACTACGACCAGGATGTGGCC
 ACCCTGCTGTACCGTGCGCCCCGCTCGCAGTGGACTGCCTCACACAAGCCCTTCCAGGC
 CCGCCCCACAGTGCCCTGATCCTGGACGTGGCCTGTGGCACAGGCCTAGTGGCTGCCGAG
 CTGCGGGCTCCAGGCTTCTCCAGCTGCATGGGGTGGATGGGAGCCAGGGATGCTGGAA
 CAGGCCCAGGCCCCCGGCTCTATCAGCGCCTCAGCCTCTGCACCCTGGGCCAGGAGCCT
 CTGCCAGCCCCGAAGGGACCTTCGACGCGGTGCTGATAGTGGTGCCTCAGTGACGGC
 CAGGTGCCCTGCAATGCGATACCTGAGCTACATGTACCAAGCCAGGTGGGCTGGTGTGT
 CTGACCACCAGGACCAACTCGTCCAACCTTCAATACAAGGAGGCTCTGGAGGCCACCCTG
 GACAGGCTGGAGCAGGCTGGGATGTGGGAAGGCCTGGTGGCCTGGCCTGTGGACCGCCTG
 TGGACCGCTGGGAGCTGGCTACCTCCGAGCTGGAGGTGGTATCCGGCATCTCTGCCAAGG
 ATGGCTTCATCTCCGGCATTGTCTACCTGTACCGAAAGTGGAAGGCGACCCAGGTTGAGG

FIGURE 1 (CONT'D)

AAGTGAGATCCAGCCCCCAGCCCCCAGCTGGCCCCCTGACTCCATGTGGCCTTAGCTGGGC
CCATCTGCTGGGCCTCCTCTGCCTCCCCTGTAAAATGGGACCTCCGAACCAACCCTGCCC
CTCAGAAATGCCCTGCCTATTAAATGAGCTCCC

Gene 586. >ENST00000297926 cDNA sequence

ATGTCCATGGGCCTGGAGATCACGGGCACCGCGCTGGCCGTGCTGGGCTGGCTGGGCACC
ATCGTGTGCTGCGCGTTGCCCATGTGGCGCGTGTGCGCCTTCATCGGCAGCAACATCATC
ACGTCGCAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGGTGCAGAGCACCGGCCAG
ATGCAGTGCAAGGTGTACGACTCGCTGCTGGCACTGCCACAGGACCTTCAGGCGGCCCCG
GCCCTCATCGTGGTGGCCATCCTGCTGGCCGCTTCGGGCTGCTAGTGGCGCTGGTGGGC
GCCCAGTGACCAACTGCGTGCAGGACGACACGGCCAAGGCCAAGATCACCATCGTGGCA
GGCGTGTGTTCTTCTCGCCGCCCTGCTCACCTCGTGCCGGTGTCTTGGTTCGGCCAAC
ACCATATCCGGGACTTCTACAACCCCGTGGTGGCCGAGGCGCAGAAGCGCGAGATGGGC
GCGGGCCTGTACGTGGGCTGGGCGGCCGCGCGCTGCAGCTGCTGGGGGGCGCGCTGCTC
TGCTGCTCGTGTCCCCACGCGAGAAGAAGTACACGGCCACCAAGGTGTCTACTCCGCG
CCGCGCTCCACCGGCCCCGGGAGCCAGCCTGGGCACAGGCTACGACCGCAAGGACTACGTC
TAA

Gene 587. >ENST00000320531 cDNA sequence

GCTTCTCCCAGCTGGAGTAGGTGGGGGAGGCCAGACATGGAGGCCCTTCTCCAGTCAGA
TCCAGCCTTTTGGGGATCCTGTTGCAGGTTACGAGGCTCTCAGTGCTGTTGGTTCAGAAC
CGAGATCACCTCTATAATTTCTGCTCCTCAAGATCAACCTCTTCAACCACTGGGTGTCA
GGGCTGGCCCAGGAGGCCCGGGGCTCCTGTAACTGGCAGGCCACCTACCCCTGGGAGCT
GCAGCCTGCCCCCTGGGCCAGGCTCTCTGGGCTGGGCTGGCTCTGATACAGGTCCCCGTA
TGGCTGGTGTACAGGGACCCAGGCTGATGTGGGCTGGCATGTGGGGCAGCACCAAGGGC
CTGGGCCTGGCCTTGCTCAGTGCTGGGAGCAGCTGGGCCTGTCTGTGGCCATCTGGACA
GATCTGTTTTTGTTCATGTCTGCACGGCCTGATGTTGGTGGCCTTGCTCTTGGTGGTAGTG
ACCTGGAGGGTGTGTGAGAAGTCCCACTGCTTCCGACTGGGCAGGCAGCTCAGTAAGGCC
TTGCAAGTGAAGTGCCTGGTAAGGAAGCTCCTGGTACAGCTGAGACGTCTGTATTGGTGG
GTGGAGACTATGACTGCCCTCACCTCCTGGCACCTGGCCTATCTCATCACCTGGACCACC
TGCCCTGGCCTCCACCTGCTGCAGGCTGCCTTTGAGCACACGACCCAGCTGGCCGAGGCC
CAGGAGGTTGAACCCCAAGGAGGTCTCAGGGTCTTCTTCTGCTGCCCTCACTGTCTGCGTCC
TCGGACTCAGAGTCTGGAACAGTTTGTCCAGAGCAAGAACTCCAGAGAATAAATGTAT
CCCCATCT

Gene 588. >ENST00000310055 cDNA sequence

ATGTGGCCGAAGTTCAACCCAGCGAGATCAAAGTCGTATACCTGAGGTGCACTGGGGGT
GAAGTCAGTGCCACGTCTGCGCTGGGCCCCAAGATCGGCCCCCTGGACCTGTCTCCAAAA
AAGGTTGGTGATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTG
AAACTGACCATTGAGAACAGACAGGCCCCAGATTGAGGTGGTGCCTTCTGCTTCTGCCCCTG
ATCATCAAAGCCCTTAAGGAACCAAGAGACAGAAAGAAAACAGAAAAACATTAAACACAGT
GGGAATATCACTTTTGATGAGATCGTCAACATTGCTCCACGGATGCGGCACCGATCTTTA
GCCAGAGATCTCACTGGAACCATTAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGC
AATGTTGATGGCCGCCACCTCATGACATCATAGATGACATCAACAGTGGTGTGTGGAA
TGCCAGCTAGTTAA

Gene 589. >ENST00000297169 cDNA sequence

AGCGACGCGTGGAGAAGCGGCCCCACGTGTCTGCCAGAGTCAAGTCCTGTGTTCTTCCCG
CTCCTTACGCATCCGCGGTCCAGGGCGCCCTTTCAGCCCCGCTGGTGTTCGCCCCACCCG
GGCCGCGTGAGTGGGGCCCCACGCAGCTCCCCGCACTCCGTGGGCCAACTTGGCCAAGCA
ACTCTGTCCGGGGAGCGGTGCTTGCAGGGGGGTGAGTACCGGGCACTGCGCATGCGGAGCT
CCAAATTCAAACAGCTGTTTTTTCAGAGGCTGGAGGGCGGGCGGACTGGTAGCAGCTGGGGC
TAGGAGAGGCTTTCTCTAGGAGGCGGCCGCTCGGGAGCCATGGTGGACCGGGGCCCTCTG
CTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGGCGGCGATCTTCGAAGTGCTGGAG
GAGCCACACTGGAAGGAGGCCAAGAAAACTACTACACACAGAAGCTGCATCTGCTCAAG
GAGTTCCCGTGCCTGGGTGAGGAGGGCTGGACAAGATCCTAGAGGTGGTATCTGATGCT
GCAGGACAGGGTGTGGCCATCAAGGGAAACAGACCTTCAACAACCTGGAACCTGGCCCAAT
GCAATGATTTTTTGCAGCGACCGTCATTACCACCATTTGGATATGGCAATGTGGCTCCCAAG

FIGURE 1 (CONT'D)

ACCCCCGCCGGTGCCTCTTCTGTGTTTTCTATGGTCTCTTCGGGGTGCCGCTCTGCCTG
 ACGTGGATCAGTGCCCTGGGCAAGTTCTTCGGGGGACGTGCCAAGAGACTAGGGCAGTTC
 CTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATCACGTGCACAGTCATCTTCATC
 GTGTGGGGCGTCCTAGTCCACCTGGTGATCCCACCCTTCGTATTATGGTGACTGAGGGG
 TGGAACTACATCGAGGGCCTCTACTACTCCTTCATCACCATCTCCACCATCGGCTTCGGT
 GACTTTGTGGCCGGTGTGAACCCAGCGCCAACCTACCACGCCCTGTACCGCTACTTCGTG
 GAGCTCTGGATCTACTTGGGGCTGGCCTGGCTGTCCCTTTTTGTCAACTGGAAGGTGAGC
 ATGTTTGTGGAAGTCCACAAAGCCATTAAGAAGCGGCGGCGGCGACGGAAGGAGTCCTTT
 GAGAGCTCCCCACACTCCCGGAAGGCCCTGCAGGTGAAGGGGAGCACAGCCTCCAAGGAC
 GTCAACATCTTCAGCTTTCTTTCCAAGAAGGAAGAGACCTACAACGACCTCATCAAGCAG
 ATCGGGAAGAAGGCCATGAAGACAAGCGGGGTGGGGAGACGGGCCCCGGGCCAGGGCTG
 GGGCCTCAAGGCGGTGGGCTCCAGCACTGCCCCCTTCCTGGTGCCCTGGTAGTCTAC
 TCCAAGAACCGGGTGCCACCTTGGAAGAGGTGTACAGACACTGAGGAGCAAAGGCCAC
 GTATCAAGGTCCCAGATGAGGAGGCTGTGGCACGGGCCCCTGAAGACAGCTCCCCTGCC
 CCCGAGGTGTTTCATGAACCAGCTGGACCGCATCAGCGAGGAATGCGAGCCATGGGACGCC
 CAGGACTACCACCCACTCATCTTCAGGACGCCAGCATCACCTTCGTGAACACGGAGGCT
 GGCCTCTCAGACGAGGAGACCTCCAAGTCCTCGCTAGAGGACAACCTTGGCAGGGGAGGAG
 AGCCCCCAGCAGGGGGCTGAAGCCAAGGCGCCCCTGAACATGGGCGAGTTCCCCTCCTCC
 TCCGAGTCCACCTTCACCAGCACTGAGTCTGAGCTCTCTGTGCCTTACGAACAGCTGATG
 AATGAGTACAACAAGGCTAACAGCCCCAAGGGCACATGAGGCAGGGCCGGCTCCCCACCC
 CACCTTTGATGGCCTCTTCCCCCTCACCTAGGGTGTCCCGAGATGACCGGGACGCCTG
 GCCCCCTGGTGGGGGGGAGCCTCGGAAGTGGGAGTGGGGGGCCAGGGGCCCTTCTAACCT
 TCCATCATCCTCAGCTAGATGTATGCCCGGGACAGGGCCTCTGTTCTCCAGCTGAACCAT
 ACCCTGGCTGTGGGGGCATCTGTCCTGAGCTTGGCTGGTGTATCTCACAATGCAAAGACA
 TGCTGGCTGGCGGGACAGGTGGGCAGGACTGACCCTGAGGAGGCCTTGCCTGCAGGGTCT
 TTGTCTCACCATTTGGTGGAGTATCACACGGTTCTCTGAGGTCTGGGGCCTCAGCTGTTT
 AAGTTTACCGGTATTACTGAGCTCGGCATTTGGAGAGGGAGCTCTGAAGTGTCTGGGGAG
 GTACCGCTGTGCGTGGGGTCAAGGTGTTTCCGTACCACAGCAGGAGCAGGGCCCCCGCCA
 TCCCAGCTGTGGGCCTGCCGGTCAGGTGCGGCACCTACTACAAACCGTAGTGGGGTGGAG
 GCTGCTGGAGGTGGGAGTGAAGAGATGAGGGCAGGGTCTCAAACAGTCCTGACTCACAGG
 GCCTGGAAACAAGTCCTATGTGGGCCTGGGGCCTGGGGTCTCATCCTCCTTGTGGTCT
 ACTCAGGCCCAGCCCAGAGCTGTGTTCCCTGTCTCAGGTCAAGCAGTGGCAGACGCAAGG
 CTTTCTGTGGGCCCCCAAGTGGTAGGAGGGAGAGTAGCAGAGCATGGGTTACTGGAAGCC
 GGGACTGCTAGGGCTGGTGGCCAGGGAGCTGCAAGAGTGAAGCTCAGCTCTGGCTGGTTC
 TGCCCTTACCCCTCCTGCCCGCCTGAGAACTGCACACCCTGCCCGCTGGCCCCAGGACCT
 GCACTCCCAATCCTGCTGTCTTCTCCTTCCCTGTGCCCTGAACAAGGACCTCACTGCCCG
 CCTTCCCCTCCCACCAGCCCCCTGGGGCTGGCCCACTGTGTCTGAATGTTTTTGTATT
 TTTTGTTTTATTTTTTAAACAACTGCTGTTTTTATATACCTGGAATCTGTTGTTGGCTT
 CAGAGCCAGTGGTTAAAGAGCAGGGTCCCAAGGATTGGGAGATCTAGTGTCTGCCCTCCT
 GCCCTGCAACTCAATTGGGCCTTTTTCGGTGACCTCATCCAAGGCCATGATGTCAAGGGC
 CATGTCCCCAAGCAGAGGTGGAGAAGGGGACACTGAGGTGAGCAAAGCAGGAAGGGGCA
 TCCACTGCGGGTGAAGTGGAGGCCGGGAGGAAGCAAGTCATCAGAGCCGCTCAGCTCCGT
 TCACTCTCTGCCTTCTGCCCCACTACTGTGGGGCAGTGGGGCCAGAGCCCACCTCCCCAA
 CATGTGAAGACAGTGTGGGCACGTGCCCCACCCCCACTTCTCTAGCCGTTTGAGAGG
 CCGCCACCCAGCAGGGGCCTGAAAAGGAGCAGCCTCGTATTTTTCTGTGAAATGTTTTAA
 TGAACCATGTTGTTGCTGGTTGTCTGGCATCGCGCACACTGTATGTACATACTGGCAAC
 GATGTCAAATGTAATTTATTTTAAATTTTACAATAAAACATGAGGTGGACAGGC
 Gene 590. >ENST00000292563 cDNA sequence
 CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGG
 GAGCCGAGCCGGGCGGGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGGA
 TGCGGTGCTGCTGGCTGCGGATGTGCGCAAGGAGATGGGATGGAGAGCCTGAGTTGGCAT
 TCGTATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTAACGTGCCTATCGACC
 CCTCTGCTCCTGCCTGCCCTGAGCCCCGGCCATAAGGGCATGGATTACCGGGACTGGGTCC
 GCCGAGCTACCTGGAAGTGGTCACCTCTAACCACCACTCGGTACAGGCCCTGTCTGTGGC

FIGURE 1 (CONT'D)

GGAAGCTCTACCTGAGCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCT
 CCGGCTTTGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGC
 GGCCGCTGCTGATTGCCTTCAGCGCCTGCACCACGGTGTGGTGGCCGTGCACCTGTTG
 CCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACC
 TGAAGTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGGCCTGGG
 GCTTCTCCACCGTGCTTGGCATCCTACTCTTCTGGCCGAGGTGGTGTCTGCTGCTGGA
 TCAAGTTCTCCCCGTGGATGCCCGCGCCAGCCTGGCCCCCACCTGGCCCTGGGAGTC
 ACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTGGGCCTCATCT
 TCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAACGGAGCGCCACA
 ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCC
 TGCAGGTCTTGTGAGGGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGGAGTCCG
 CAGAGGCGGGGATTTGTGAGATGCAGACATTTTGCAAGGCTGCCGGGTAGTTCAAGACCA
 AAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTCTGAGATAGAACCCT
 TTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGGCTGGTTCCTT
 GGCCTCGGGGTTTTCTGGGTGGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATC
 AGTCTGGGCCAGGAGGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCG
 GCATGCGTGGCTGGCAGACCTGGGAGAGCCAGGGCAGGGTTTTGCGTTAGAGAAGGATT
 GCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGTGTGACAGTGATGACA
 CGAAGGCTTCGGCGTTTTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGTTCCTGCCT
 GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTC
 AGCCAGCAGGTGTGGGGGGTGTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATG
 TTTCCAATGGTGGGCAGCCTGGCCAGGCCGGAGAAGACATGTTACGGGCATCTATCAGA
 TGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTACGCTAGGCTCAAATT
 CTCTTTTCCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGGGGTGGGGAAA
 GGACCCCTCCCCACCCCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTC
 TAAGGCTGACTCAGCCACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGCTCTGGCTCAG
 GCCCCGGAGCCTGTGCAGCTTGGCCATGGCCCTAGGCAGCGAGGGGACAGCCTGGGGGAC
 TTCCTGCCTAGGCAAGGTCAATTGGCCGGGCCTGGCCTGTGGATAGTGGGGCCAGGGGCCG
 GCCCAGGCCAAATGAGTGCCTCCTTGTATGACACCAAGTGAAGTACTACAAGGGAGGCAAGA
 CCCCTCCAGGCCTCTCAGCCGACACTGGGTCCACACACACAGTGAAGTGTGCCGTGCAG
 TGCAGGTTCTGGCCTTTTCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCC
 GCACATGCACGCCCGCAGCACCAGCTGCCCTGAGCTGCTTGTACAACCAAACACCTTTCCC
 CTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCTTGTCTTTTGTCTCATAAATAG
 TCACTGGGGCCGGGCGCAGTGAAGTCAAGCCTGTAATCCAGCACTTTGGGAGGCCTAGGT
 GGGCGGATCACTTGAAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCTGT
 CTCTACTAAAAAATACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGC
 TACTTGGGAGGCTGAGGCGGGGAGAATGGCAATGGCGTGAACCCGGGAGGCAGAGCTTGCA
 GTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGACTCCATCTC

Gene 591. >ENST00000326391 cDNA sequence

ATGAACGCCCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACC
 ATTAACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCAC
 AACTGGGAAACATCATTAAATCACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGC
 TACAAAGTCCCCACCCCTTGGAGCACAAGATCATCATCCGAGTGCAGACCACGCCGGAC
 TACAGCCCCCAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTG
 CTGGAGGAGCGCTTTCCGGGTGAGGGCGGGGCCTGGAGGGGCAGACGGGGTGGGCTGGACA
 CTGGCCCGTGTGCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTGGGGGA
 GAGGCGGCAGTGATGGAAGAGCAGGGACTTCCACCACAGGCTCCAGGACATGTGGACTGA
 GGGGCTGTGGAGTCTGGGCCTGTGGCTCCCGTCTGCCCCATGGGACTTCTGTAGTGCTGC
 AGGGTCCCTCGGGTGTGTGGGCCAGATCGGGCGGGGACCTACTGTCTTTGGGGGTGC
 TCTTCTACGTCCCTTGTGGTGATTGGCAAGGCCTGGTCTTCCAGGTCTCTGGGAGGCA
 GCTCACCCCGGGTGGCCACACCTGTTCTGGCAGGGCGCATGGGAATCTAGAACAGTT
 TAGAGGGGAAAGAGCCACAGC

Gene 592. >ENST00000292614 cDNA sequence

GGTGGCGGCGGGCGGGCGGACCCCTTGGGGTCTGGACGCAACGGCGGGGAGCATGAACGCC

FIGURE 1 (CONT'D)

CCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACCATTAAACAAG
GACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCACACACTGGGA
AACATCATTAAATCACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTC
CCCCACCCCTTGAGACACAAGATCATCATCCGAGTGACAGCACGCCGACTACAGCCCC
CAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAG
CGCTTTTCGGGTGGCCATAAAAGACAAGCAGGAAGGAATTGAGTAGGGGCCAGAGGGGGCT
CTGCTCGGCCTGTGAGCCCCGTTCTACCTGTGCCTGACCCTCCGCTCCAGGTACCACAC
CGAGGAGAGCGGCCGGTCCCAGCCATGGCCCCGCTTGTGGCCACCCCTCACCTGACACC
GACGTGTCCTGTACATAGATTAGGTTTTATATTCTAATAAAGTATAGCGGGAGAGA

Gene 593. >ENST00000292566 cDNA sequence

GCGCGATGGCGGCGGCTGCCGCCGAGACCCCGAAGTCCTTCGGGAATGCGGTTGCAAGG
GCATCCGGACCTGTCTGATCTGCGAGCGGCAGCGCGGCAGTGACCCGCCCTGGGAGCTGC
CCCCAGCGAAAACATACCGTTTTCACTTACTGCTCCGACACCGGCTGGGCCCTGGGCACAG
AGGAGTCTGACTTTGAGGGCTGGGCCTTCCCCCTTCCCAGGAGTGATGCTGATCGAGGACT
TTGTGACCCGGGAGGAAGAAGCCGAGTTGGTGCGGCTCATGGACCGTGACCCCTGGAAGC
TCTCCAGTCTGGACGGAGGAAGCAGGACTATGGCCCCAAAGTCAACTTTTCGAAACAGA
AGCTAAAGACCGAGGGCTTCTGCGGCCTCCCCAGCTTCAGCCGGGAGGTGGTGCGGAGGA
TGGGCCTCTACCCGGGGCTGGAGGGCTTCCGGCCCCGTCGAGCAGTGCAACCTGGACTACT
GCCCCGAGCGGGGCTCTGCCATTGACCCCCACCTGGACGACGCCTGGCTGTGGGGGGAGC
GGCTGGTCAGCCTCAACCTCCTGTCCCCCACCGTGCTGTCCATGTGTGCGGAGGCGCCCCG
GGAGCCTGCTCCTCTGCTCGGCCCCGTCGGCTGCCCCGGAGGCCTTGGTGACAGCGTGA
TAGCACCCAGCCGGTCGGTGCTATGCCAGGAGGTGGAGGTGGCCATCCCCTTACCCGCCC
GCTCCCTGCTGGTCCTCACCGGGGCGGCACGGCACAGTGGAAGCATGCCATCCACCGCA
GACACATCGAGGCCCCGCGCGTCTGCGTCACTTTCCGGGAGCTGTGCGGCTGAGTTTGGCC
CTGGAGGGAGGCAGCAAGAGCTGGGCCAGGAAGTCTGTCGGATCGCCCTCTCCTTCCAGG
GAAGACCCGTGTGAACCGCCTCCTTGGCTCCAGACTTGACTGATCCCGGGATTGAAATGA
GGAGCACAGAACAGGGCCTCCTGCAACTCACGGGGTTTCAAGAGAAGATGGCTGACCCCT
GATGCTGTGAGCAGTGAGCCCTGCCAGGAGCAGGTTTTGATGGGAACGTACCTCCAG
GCAGCCCCCTTCCACCTGGACCGTGGCCACACTTTTTTGGTTATTTAGTTTGTACAGTC
TTGGGGACATGGGATCATTTTGAAGCTTAAAAAATACTGGGGGCGGGCACAGTGGCTCACA
CCTGTAATCCTAACACTTTGGGAGGCTGAGGTGGGCGGATCACTTGATGCCAGGAGTTTCG
AGACCAGCCTGGCCAACACGGTGAAAACCCGTCTCTACAAAAACTACAAAAATTAGCCGG
GTGTGGTGACTCACAGCCGTAATCCCAGCTACTCGGGAGGCTAAGGTGGGAGAATTGCTT
GAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTCGGT
GACAGAGCAAGACTGTTTTGAAAAAATAAATGGGAACATTTTAAATGATTTTACC
TTTATTATGCATCTATTTTCATGGGGTTTCCCGATATCTCACTGTCCAGTCCCTTCATTT
GGGAATGTGTTGGATTAGGGAACAGGGTTGAAGATTTGAAGTTTAGACTAAAGAGCTGG
GAACAGCTTCAGAGTCAGGCTCAGCCTGACTCATGCTTGACACCCCCACGCCAGGGAGG
GTTGGGGGATGTGAGGAGGGCAGGGAAATCTGAGAGCCTCCTTCCAGCCCCATAACGCTG
TTAACAAGTAGGAAAAATTAAAGCTCCCGGCCAGGCGCGGTGACTCACACCTGTAATCCG
AGTACTTTGCGGGGCTCAGGTGGGAGGATTGCTTGAGGCCAGCCTGGGCAACATAGTGAG
ACCCCATCTCTACAAAAAATACAACATTAGCTGGGCGTCTGGGCATGGTGGCACACAC
CTGTAGTCCCAGCTACTCGAAAGGCTGAGGCGGGAGGATGGCTTTACCACCATGTCAAGG
CTGCAGTGAGCTCATGATCATACCACTGCACTTAACCTGGCAACAGAGCAAGACCCTGTG
CCT

Gene 594. >ENST00000292616 cDNA sequence

CCTTCGGTCTGTTAACGCCACGGGCTCGCGCGGCGCGCCTCCTGGGCTCAGTTACCGC
GGACGCCAGTGCCGGGCTCCAGGAGACGAGGGCGACGCCACACGCCGGGGTGGCCGACT
GGGTGAGCGCGGGCTGCGCCTCCTCGCCATGGGCCCCCTCTCGGCGCGGCTGCTAATGCA
GCGCGGGCGCCCCAAGAGCGACCGGCTGGGGAAGATCCGGAGTCTGGACCTGTGAGGATT
GGAGCTGCTTTCCGAGCACCTGGACCCCCAACTCCTGTGCCGCTGACGCAGCTGCAGGA
GCTTGACCTGTCTAACAACACCTGGAGACGCTGCCGGACAACCTGGGCCTGTCCCACCT
GCGTGTCTCCGCTGCGCCAACAACAGCTGGGGGATGTTACTGCCTTGTGCCAGTTCCC
CAAGCTCGAGGAACCTCAGCCTGGAGGGCAACCCCTTCTGACGGTCAATGACAACCTGAA

FIGURE 1 (CONT'D)

AGTCTCCTTTCTCCTGCCCACGCTCCGTAAGGTCAATGGCAAGGATGCGTCCTCAACTTA
CTCTCAGGTGGAGAACCTGAATCGGGAGCTGACCAGCAGGGTCACAGCTCACTGGGAGAA
GTTTCATGGCCACACTGGGTCTGAAGAGGAGGCTGAGAAGGCCAGGCGGACTTTGTGAA
GTCGGCTGTGAGGGATGTCCGCTACGGGCCCCGAGTCCCTCAGCGAGTTCACCCAGTGGCG
GGTGCGGATGATCTCTGAGGAGCTGGTGGCCGCCAGTAGGACCCAGGTGCAAAAGGCTAA
CAGCCCAGAGAAGCCCCCAGAAGCTGGAGCTGCCCACAAGCCCAGGGCCAGACTGGCGGC
CTTGAAACGGCCAGACGACGTCCCACTCAGCCTCTCTCCAGCAAGCGGGCGTGTGCCTC
CCCGTCGGCCCCAGGTGGAGGGCAGCCCTGTGGCAGGCTCCGATGGCAGCCAGCCTGCTGT
GAAGCTGGAGCCCCCTGCACCTTCTGCAGTGCCACAGCAAGAACACAGCCCCAGGACCT
CGAGACCCAGCTGTGGGCCTGTGCCTTCGAGCCGGCCTGGGAGGAGGGGGCCACATCCA
GACCGTGGCCACGTGCGGCGGGGAGGCTGTGTGCGTAATTGATTGCCAGACGGGCATCGT
GCTCCACAAGTACAAGGCACCCGGCGAGGAGTTCTTTTCTGTGGCCTGGACCGCTCTGAT
GGTGGTTCACACAGGCTGGCCACAAGAAGCGCTGGAGTGTGCTGGCGGCTGCAGGCCTACG
GGGCCTGGTCCGGCTGCTGCACGTGCGTGCCGGCTTCTGCTGCGGGGTATCCGAGCCCA
CAAGAAGGCCATCGCCACCCTGTGCTTCAGCCCCGCCCCAGAGACCCATCTCTTCACGGC
CTCCTATGACAAGCGGATCATCCTCTGGGACATCGGGGTGCCCAACCAGGACTACGAATT
CCAGGCCAGCCAGCTGCTCACACTGGACACCACCTCTATCCCCCTGCGCCTCTGCCCTGT
CGCCTCCTGCCCCGACGCCCCGCTGCTGGCCGGCTGCGAGGGCGGCTGCTGCTGCTGGA
CGTGCGGCTGGACACAGCCCCAAAGAGGAGGGTGTGTGAAGTGAATTCTGCTTCTCTGA
GGGCTCCGAGGCATCTGGACGGAGAGTGGATGGGCTGGCATTGTGAATGAGGACATCGT
GGCCTCCAAGGGGAGCGGCCTGGGCACCATCTGCCTGTGGAGCTGGAGGCAGACGTGGGG
GGGCCGGGGCAGCCAGTCCACGGTGGCAGTGGTGGTCTTGGCGGGCTGCAATGGTCTGTC
CACCGAGTTGGCCTACTTCTCGCTCAGCGCCTGCCCTGATAAGGGGATTGTGCTCTGTGG
GGATGAGGAGGGCAACGTGTGGCTCTACGACGTGAGCAACATCCTGAAGCAGCCACCCCT
GCTGCCGGCAGCCCTGCAGGCCCCCACACAGATCCTGAAGTGGCCCCAGCCCTGGGCCCT
TGGCCAGGTGGTGACCAAGACCATGGTGAACACAGTGGTGGCCAATGCCTCCTTCACCTA
CCTCACCGCCCTGACGGACTCCAACATCGTAGCCATCTGGGGGAGGATGTAGCCTCACAC
CATCGCAAAGGACCAGGGACACAGCTAACTAACTTATTAGCTTTGGGCCGATGGGGGTG
GGGGGGGGTCTTTTCAGTGAATATTTTTATTAACTCTACTGTGG

Gene 595. >ENST00000297278 cDNA sequence

CAGTCCCAGCTGCTAGTGTGCTGTTGCTGCTACTGACCCGTGTCCAGCCTGGGACAGAC
GTGGAGCACATCAGCTATGTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACC
CTGTCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGTTCAGCAGCCACAACATCTCTGAC
TTGGATAACCATCTGGCTGGTGGTGGCCCTCAGCAACGCCACCCAGAGCTTCACGGCCCCA
CGGACAAACCAGGACATCCCTGCTCCTGCCAATTCTCCAGAGGGGCTACTATCTCACA
CTGAGGGCCAACCGGGTGCTGTACAGACCAGAGGCCAGCTCCATGTCTCCGCGTCGGC
AATGATACCCACTGCCAACCAACAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGC
CCCTACAGGGTGAAGTTCTTGGTGTATGAATGACGAAGGACCCGTGGCTGAAACAAAGTGG
TCCAGCGACACTCGCCTGCAGCAAGCCCAGGCACTTCGGGCTGTCCCCGGCCCCCAGAGC
CCGGGACCCGTGGTTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTC
CTCCTGGCTGTGCTCATATACACCTGCTGCAGGAGCACTTCCCTATCAGGCCCAGAGGAG
GCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTGAGCACTCCTGCCGAGGGGGCT
TCCTGA

Gene 596. >ENST00000306682 cDNA sequence

GGACCCCGGTGTCTGGCTTCCCCCGAGCCGGCACCCCGGATGGCCAAGCGCAGCTCGCT
GTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCCAAGGACATCACTGGCAGCAGCGA
CCCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGACAGCCACAGTGTGGAA
GACCCTGTGCCCCCTTCTGGGGTGAGGAGTACCAAGTGCACCTGCCGCCCCACCTTCCACGC
TGTGGCTTTTCTATGTGATGGATGAGGATGCCCTCAGCCGGGACGACGTTATCGGAAAGGT
CTGCCTTACAAGGGACACCATAGCCTCTCACCTAAGGGTTTTAGCGGGTGGGCCCCACCT
GACAGAGGTGACCCCGACGAGGAGGTGCAGGGCGAGATCCACCTGCCGGCTGGAAGTGTG
GCCAGGGGGCCGGGCTGCCGGCTACGCTGCTCTGTGCTGGAGGCCAGGGATCTGGCCCC
AAAGGACCGCAATGGCACATCTGACCCCTTCGTCCGAGTGCCTACAAGGGCCGGACACG
GGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTTTGAATTTGA

FIGURE 1 (CONT'D)

GCTGCAGGAGGGGGCCATGGAGGCGCTGTGCGTGGAGGCCTGGGACTGGGACCTTGT CAG
 CCGAAACGACTTCCTGGGCAAAGTGGTGATTGATGTCCAGAGACTGCGGGTGGTGCAGCA
 GGAGGAGGGCTGGTTCCGGCTGCAGCCCGACCAAGAGCCGGCGGCATGACGAGGG
 CAACCTGGGCTCCTTGAGCTGGAGGTGCGGCTGCGGGACGAGACGGTGCTGCCCTCCAG
 CTACTACCAGCCACTGGTGCACCTGCTGTGCCACGAGGTCAAGCTGGGCATGCAGGGCCC
 AGGGCAGCTGATCCCACTCATCGAGGAGACAACCAGCACCGAGTGTGCGCCAGGACGTGGC
 CACGAACCTGCTCAAGCTCTTCTGGGGCAGGGGCTGGCCAAGGACTTCCTGGACCTGCT
 CTTCCAGCTGGAGCTGAGTCGCACCAAGTGAGACCAACACCCTGTTCCGGAGCAACTCTCT
 GGCCTCAAAGTCCGTGGAGTCTTTTCTGAAGGTGGCCGGGATGCAGTACCTGCACGGCGT
 CCTGGGCCCCATCATCAACAAGGTGTTTGAGGAGAAGAAGTACGTGGAGCTGGACCCAG
 CAAAGTGAAGTTAAGGATGTAGGGTGTCTCCGGGCTGCACCGCCCGCAGACCGAGGCCGA
 GGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCCACTGGGGGCCCTGCTGAGCGCGCT
 CAGCCGCTCGGTTGCGCGCTGCCCCGCGGTGGTGCGCGCCACCTTCGCGCAGCTCTTCG
 GCGCGTGCGCGAGCGCTTCCCCGGCGCCAGCAGGAGAATGTACCGTTTCATCGCCGTAC
 CAGCTTCTGTGCTGCGCTTCTTCTCTCCCGCCATCATGTGCGCCAAGCTCTTCCACCT
 GCGGGAGCGCCACGCGGACGCGCGCACCAAGCGCCACCTGCTCCTGTTGGCCAAGGCAGT
 CCAGAACGTGGGCAACATGGACACGCGCGCTTCCAGGGCCAAGGAGGCTTGGATGGAGCC
 GCTGCAGCCCACCGTGACCAAGGGCGTGGCGCAGCTGAAGGACTTCATCACCAGCTCGT
 GGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACGCTGAGTTTGCAGGCGCCACC
 TGTGAAGGAGGGGCCACTCTTCATCCACAGGACCAAGGGCAAGGGCCCCCTCATGTCTC
 CTCCTTCAAGAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGCGAAGACGCC
 CAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGCAGCGGAAAAGGTTGA
 GGAAAAGAGCTTTGGCGGCTCGCACGTATGCAGGTATCTACACGGACGACGCGGCAG
 GCCCCAGACTGCCTACCTGCAGTGCAAGTGTGTGAATGAGCTTAACCAAGTGGCTGTCTGC
 GCTGCGGAAGGTGAGCATCAACAACACCGGACTGCTGGGCTCCTACCACCCTGGCGTCTT
 CCGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAGACAGGTGAGGGCTGCGATAA
 GACCCGGTCACGGGTGACCTGCGAGGAGTGAATGACCTCTTGACCATGACCTTGAGGC
 CCAGCTCATCTACCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGGA
 GCTGAGCGGGGGCGCAGAGGCAGGCACGGTGGCCACGAGCCCTGGCAAAGTCCCCGAGGA
 CTCATTGGCCCCGGTGTCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAGCTCCAGCCC
 GGCCGGCTCCCCACCTCAGAGCCCAACTGCCTCCTGGAGCTGCAGACGTGAGGCCCGCC
 CTACGCTCCCCTTGCTGAGTCCCCTGCCAAGCGCTCGGAGCCCCCCCAGGACACTCTGCA
 CCCCCTCACCCCGGTCTCTCTCATTAGGGTGCAGGGCTAGGTCTCTTCCAGGTGGGGGA
 GGGGGGAGAGTCAGGAATAAGGGGATCCCCAGAAGTGCAGAGCTGAGCAGGCTTGGGCCT
 GTCATGGCTGGCCGGAAGTGTCCCCAGCTCCCTACAGACGCTGTAGCCATCACTGCCTCT
 CCAGGGACCTCTCTCTCTGCCCAGGACAGACCCAGCCAGAACCACTGCTAGGATGGGCC
 GCACCCAGGGGTCTGGCCTCCAGGGACCTAGAGAATGGGAGGGAGAACGGGGCCCCAGGA
 GACCCGGCCGCCACCCACCCGCTACCTTGGGTGCCACAGGGCTGTGCTGTTGCCAACA
 GTAAACCTGCTCTTACTGTCCAGGCTCTGGGGTCTTGTGATGAGGGTCTGGGGAGAAAGT
 GGGCCCGGGGGGACCCCGAGGCTGTGGGTGGATGTGCCGATGATGGGGCTGACAGTATG
 GGCTCTGGGCATCCCTGTTCCCCCTCTTTCTTCCCCCACTCTTCTGGGGTGGGGGTT
 CCTTTCCTTCCAGTTGCTGTCCCTGGGTCCCCTCTTTCATGTCCACAGGCCACAGAG
 CCCAGTGTGTCCAACAGCTGTTCTCTCCTCAAAGCAGCCCCCAAGCAAGTCCCTTCTCT
 AGGGTGTCCCTGAGGACAGCACAGAGGCGGGACTCAGAGACCCCATTCCTCTTACGCAG
 CCCTTACCCCAAGCCCTCTAGCTGTGTGGCTGGCAGTGTGGCCACGTAGGGGCTCCCAT
 CCCCCACCATTTGTGTACATGGGCTGCCAGGCTCAGCTCCAGCTGCGTCCACAGTGAC
 CTGGATCAGGGTGGGGACAAGGACTGGACCTCCTTCTCCAGAAGGCCTTCAGCTCTTGC
 CTTGCCATGCAGTCACTCCTTCCCCCTCTGACCCCAAGTCCCAAAGGTGCACCGTTGCC
 CCAGCCCTTTCTGGCCCCATGGGGTTTCTCTGATGCCTTCATCATAGAGGCCGGGGCT
 GGTCCGATGGTTGGCAAACTTGACTCCGGCCAGTCCCCACTCTTGGGGACTTAGAACC
 CCTGCTGTCTGGGATCTGGCCTGCCTTTCTTTGGTCAGTCCCTGTGGTCCCCCACCAGC
 TCCCCCTCCCATAGGGCTGCCACCAAGCCCTGCCCCCAGCCCAAGAGGAGCCCCCACTG
 CCTGCGGGCAGTGATGTCTGGCCACCGGCTCACACCAATGACTTGGTCTTGGGGTGGCA
 GAAGCAGCAGGTGACAGGAGCAGGGCCCCCTGTCCCTCTCTTCTGGCCCTGTGGTACCCAG

FIGURE 1 (CONT'D)

GCCACACGTTGTGCCCCGCTCTTGGGGCTGACCGGCTGCAGGGACCACCAGCCGCTGCTAC
TGTGGGCCCCCGGGGAGGGTGGGCAGGGCTTTTGTGGGTATGAGGACACAGAAGTC
CCTGAGGCCCCCAGACCTGGCTCAGCCAACCTCCTTCTCCCCGGTTGCCCCCACTCT
AAAGCCTCCTCCCTCCCAGCGTCCACTGGCTCCAGGCTCCTCACAACAGCAGCTCATAGA
CACGGGGCATCTCCAGGTGGTCTAGCCCTCCAGATGTTTCTAGCTCTCCAGGTGGGCGC
TGTTTTTACGTCTGCCTGCATCCATTCACTTCTTCACTTCTCACCTTTATCCTGTTATCT
CTATTTTTTTAAGCTACCAGGAAGGAAAGGGAAGAAGAGATCACGAACTGGGACCCCCA
GAAGGGAGGAGTGGGCTTTGAACCTTAGACATCTACCTCAGAGCTCAAATAGGTTGTTTAA
AATCACATTCAATTTTTAGATGAAGGGGAACCTTTATAATTTTTTTTTTTTTTTTTTTGA
GACAGAGTCTCACTGTGTTGCCAGGCTGGAGTGCAAATGGCTTGATCTTGGTTCACTGC
AACCTCTGCCTCCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGAGTAGCTGGGACT
AAAGGCGTGTGCCACCATGCCAGCTAATTCTTGTATTTTTAGTAGAGACGGAGTTTCTC
CATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAGGTGATCTGACCGCTTGGCCTCC
GAAAGTGCTGAGATTACAGTTGCGAGCCACTGTGCGTGGCCAGAACTTTATAATAAGAGA
CTTGAAGCTGGGTGTGACGGTGACACCTCTAGTCCCAGCTACTCGGGAGGCCAAGACAG
AAGGATCACCTTGAGGCCAGGAGTTTAAGGCCAGCCTGGGCAACATAGCAAAACCTAGTC
CCTAAAATTAATAAAAAAAAAAAAAAAAAAAGGGAAAATAAAGGAGACTTGAAATTTTTGAA
CTAAATAGTGGTGATGGCTACACATTGTGAATGTAATTAACACCACTGAGTTAAACACTT
AAAATGGTTAAAATGGCAAATTGTATGTTATACCTATTTTACTACAATAAAAAGTATAAA
AAAGAGAAGATATTTAACCAATTGCAACAAAACAAAATGTTAAGAAATGATCTTTTTATG
AGGCAATTGGAAATTTGAACACTAATCAACTATAGGATGATTGGAATTATTAATTTTGT
AAGGTGTGATAAGATACTGCACTTGGCTGGGCACAGTGGCACATGCCTGTAATCCCAGCT
ACTTGGCAGGCTGAGGTGGGAGAATCGCTTGAGCTCAGGAGTTGAGACCAGCCTGGGCA
ACGTGGCGAAATCCCCGTCTTTACAAAAACAAACAAACAAACAAAAAGATATTGCAGTT
GTGTTGTAAGCGTCCTTATCTTTTCAAGAGCTACATAGTGAATGTTTATGGAATATTTAGG
ATAAATGATATAGGCATTTGGGATTTGCTGCAAAATGACCCAGAGGCAGGGGTGAGGGG
AGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCTGATAAT
TACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCTTTGTAT
ATCTTTGAACCTTTTCAAGAATAAAAAAGCTTAAAAAGTAT

Gene 597. >ENST00000248598 cDNA sequence

CCCTGCTGGGGTGAGCAGCACTGTAAAGATGAAGCTGGCTAACTGGTACTGGCTGAGCTC
AGCTGTTCTTGCCACTTACGGTTTTTTGGTTGTGGCAAACAATGAAACAGAGGAAATTAA
AGATGAAAGAGCAAAGGATGTCTGCCAGTGAGACTAGAAAGCAGAGGGAAATGCGAAGA
GGCAGGGGAGTGCCCTACCAGGTAAGCCTGCCCCCTTGACTATTCAGCTCCCGAAGCA
ATTGAGCAGGATCGAGGAGGTGTTCAAAGAAGTCCAAAACCTCAAGGAAATCGTAAATAG
TCTAAAGAAATCTTGCCAAGACTGCAAGCTGCAGGCTGATGACAACGGAGACCCAGGCAG
AAACGGACTGTTGTTACCCAGTACAGGAGCCCCGGGAGAGGTTGGTGATAACAGAGTTAG
AGAATTAGAGAGTGAGGTTAAACAAGCTGTCTCTGAGCTAAAGAATGCCAAAGAGGAGAT
CAATGTACTTCATGGTGCCTGGAGAAGCTGAATCTTGTAATATGAACAACATAGAAAA
TTATGTTGACAGCAAAGTGGCAAATCTAACATTTGTTGTCAATAGTTTGGATGGCAAATG
TTCAAAGTGTCCAGCCAAGAACAAATACAGTCACGTCCAGTTCAACATCTAATATATAA
AGATTGCTCTGACTACTACGCAATAGGCAAAAGAAGCAGTGAGACCTACAGAGTTACACC
TGATCCCAAAATAGTAGCTTTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTG
GACAGTGCTGCAGGCACGTCTCGATGGGAGCACCAACTTCACCAGAACATGGCAAGACTA
CAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATAAAATTCATCT
TCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGCA
ACTATATGCCTTGTATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACA
CGTTGGTAACTATAATGGCACAGCTGGAGATGCATTACGTTTCAACAAACATTACAACCA
CGATCTGAAGTTTTTCACTACTCCAGATAAAGACAATGATCGATATCCTTCTGGGAACTG
TGGGCTGTACTACAGTTCAAGGCTGGTGGTTTGTATGCATGTCTTCTGCAAACTTAAATGG
CAAATATTATCACCAAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCC
TGGTGTAAAGTGAGGCACACCCTGGTGGCTACAAGTCTCCTTCAAAGAGGCTAAGATGAT
GATCAGACCAAGCACTTTAAGCCATAAATCACTCTGTTTCACTCCTCCAGGTATTCTGTTA
TCTAATAGGGCAATTAATCCTTCAGCACTTTAGAATATGCCTTGTTTCATATTTTTCAT

FIGURE 1 (CONT'D)

AGCTAAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTTGAAATAAAGCT
GAAAAACAATGC

Gene 598. >ENST00000259975 cDNA sequence

GCGCACATAGCGACTTGGTGGGCGCGTCCAGTGATGACTGGGGGATCCCGGCAAGTAACA
TGACTAAAAAGAAGCGGGAGAATCTGGGCGTCGCTCTAGAGATCGATGGGCTAGAGGAGA
AGCTGTCCAGTGTCTGGAGAGACCTGGAGGCCGTGAAGTCCAGACTCCACAGCCGGGAGC
TGAGCCCAGAGGCCAGGAGGTCCCTGGAGAAGGAGAAAAACAGCCTAATGAACAAAGCCT
CCAACACTACGAGAAGGAAGTGAAGTTTCTTCGGCAAGAGAACCAGGAAGAACATGCTGCTCT
CTGTGGCCATCTTTATCCTCCTGACGCTCGTCTATGCCTACTGGACCATGTGAGCCTGGC
ACTTCCCCACAACCAGCACAGGCTTCCACTTGGCCCCCTTGATCAGGATCAAGCAGGCACT
TCAAGCCTCAATAGGACCAAGGTGCTGGGGTGTTCCTCCCTCCCAACCTAGTGTTCAAGCAT
GGCTTCTGGCGGCCAGGCCTTGCTCCCTGGCCTGCTGGGGGGTTCCGGGTCTCCAGA
AGGACATGGTGCTGGTCCCTCCCTTAGCCCAAGGGAGAGGCAATAAAGAACACAAAGCTG
TTCCCGT

Gene 599. >ENST00000259729 cDNA sequence

GCGCGACGGTGCGGCTGGCGGACCCGGGCTGGCTTGTGGGGAAACGAACTGAGGGAGGA
GGCGGCGGCTCTGGCAGCGGCGGCGACAGTGTGCGCCTGACCCCCCTCCGCTCCCCGGC
AGCTCGCTCTCTCCCTCAGCTTAACGATGAAGAGGAGAACTGACCCAGAATGCACTGCC
CCCATCAAGAAACAGAAAAAAGAGTTGCAGAGCTTGCCCTGAGCCTCAGCTCCACGTCC
GATGATGAACCTCCCTCCTCTGTGAGTCAAGAGCAAAAGCATCTACTACAAGCCTTAGT
GGGTCTGATAGTGAGACCGAGGGGAAACAACACAGCTCTGACTCTTTTGACGATGCATT
AAAGCAGACTCTCTTGTGGAAGGAAGTCTTCTCGCTATTCCATGTATAATAGCGTCTCC
CAGAAGCTTATGGCCAAGATGGGCTTCAGGGAAGGTGAAGGATTGGGTAAATACAGCCAG
GGTCGGAAGGACATCGTTGAGGCTTCCAGTCAGAAAGGTGCAAGAGGCTTGGGTCTGACA
CTCCGGGGCTTTGACCAGGAGCTGAACGTGGACTGGCGAGATGAGCCAGAGCCCAGTGCT
TGTGAGCAGGTGTGATGGTTTCCAGAATGTACCACTGAAATTCTGACACTCAGGAAATG
AGCGATTGGATGGTGGTGGGAAAGAGAAAGATGATTATTGAAGATGAAACAGAGTTTTGT
GGGGAAGAGCTGCTTACAGTGTGTTGAGTGTAAAGAGCGTGTGTTGATGTCTTGGATGGG
GAAGAGATGCGGCGAGCTCGGACTCGGGCCAATCCCTATGAGATGATCCGAGGAGTCTTC
TTTCTAAACAGGGCAGCAATGAAGATGGCTAACATGGATTTTGTATTTGATCGCATGTT
ACAAATCCGCGGGACTCTTATGGGAAGCCACTGGTGAAGGACCGGGAAGCTGAGCTTCTG
TACTTTGCTGATGTCTGCGCAGGCCAGGTGGCTTCTCAGAGTATGTGCTGTGGAGGAAG
AAGTGGCATGCAAAGGGCTTTGGAATGACTTTGAAGGGCCCTAATGACTTCAAGCTGGAG
GACTTCTACTCTGCTTCCAGTGAAGTCTTGAACCCCTACTATGGTGAGGGTGGGATTGAT
GGAGATGGAGATATCACCCGCCAGAGAACATCTCTGCTTTTTCGGAATTTTGTCTGGAT
AACACAGATCGCAAGGGTGTCCATTTTCTGATGGCTGATGGGGGTTTCTCGGTGGAGGGG
CAGGAGAACCTGCAGGAGATCCTCAGCAAGCAGCTGCTTCTGTGTGAGTTCTCATGGCG
CTGTCCATTGTCCGGACAGGAGGCCACTTCATCTGTAAACCTTTGACCTGTTTCAACCG
TTTAGTGTGGGGCTTGTCTACCTGCTGTACTGCTGCTTTGAACGAGTTTGTCTCTTCAAG
CCTATTACCAGCCGTCCTGCCAACTCAGAGAGGTATGTGGTGTGCAAGGGCCTGAAGGTG
GGCATAGATGATGTTCCGGGATTACCTCTTTCGAGTGAATATTAACTCAATCAGCTGCGG
AACACGGATTCCGACGTCAACTTGGTGGTCCCCCTGGAGGTGATCAAGGGAGACCATGAA
TTTACTGACTACATGATACGGTCCAATGAGAGCCACTGTAGTCTGCAGATCAAAGCTCTG
GCGAAAATCCATGCCTTTGTTCAAGACACGACACTGAGTGAGCCTCGACAGGCAGAGATA
CGGAAGGAGTGCCTCCGACTCTGGGGGATCCCAGACCAGGCTCGTGTGGCTCCTTCTTCC
TCCGACCCTAAATCGAAGTTCTTTGAGCTAATCCAGGGCACTGAGATTGACATCTTCAGC
TACAAGCCCACACTGCTCACCTCTAAACCCCTGGAGAAGATCCGCCCTGTGTTTGACTAC
CGCTGCATGGTATCTGGCAGTGAGCAGAAGTTCCTCATCGGCCTGGGGAAATCCCAGATC
TACACATGGGATGGCCGCCAGTCAGACCGCTGGATCAAGCTAGACCTGAAGACAGAGCTG
CCCCGGGACACTCTGCTATCTGTGGAAATTGTGCATGAGCTGAAAGGGGAGGGGAAGGCC
CAGAGGAAGATCAGTGCCATCCACATCCTCGATGTCCTTGTGCTGAATGGCACCGACGTT
CGGGAGCAGCACTTTAACCAGCGAATTCAGCTTGCCGAGAAATTTGTGAAAGCCGTTTCC
AAGCCTAGTCGGCCCCGACATGAATCCCATCAGGGTGAAGGAGGTGTACAGACTGGAAGAG
ATGGAGAAGATTTTTGTGAGGTTGGAGATGAAGATCATCAAGGGCTCCAGTGGCACCCCA

FIGURE 1 (CONT'D)

AAGCTCAGCTACACAGGGCGTGATGACCGGCACCTTTGTACCCATGGGCCTCTACATCGTC
 AGGACAGTGAATGAGCCCTGGACTATGGGATTTCAGCAAAAGCTTCAAGAAGAAGTTCTTC
 TACAACAAGAAAACCAAGGACTCTACTTTTGGACCTCCCTGCAGACTCCATTGCCCCATTT
 CACATTTGCTACTATGGCCGGCTCTTCTGGGAGTGGGGGGATGGCATTTCGTGTGCATGAC
 TCCCAGAAGCCCCAGGACCAGGACAAGCTGTCCAAGGAGGACGTCTCTCCTTCATCCAG
 ATGCACAGGGCCTAAGAGCCTCAGAATGTGCCACCCCTGCAGAATGCCCTGTCATTCTTG
 AGATGGGGCCACCTGGGGCCACAGTGCTGGCTTCTTCCCCCTCTTGAAAAGGGACTGGG
 GAGCATTGCACCTGGCATGAGGAGTGGGTGGCCTCCTCTCCATCCCCTGAAGAGCTCAGG
 CAGGGCCCTGCAGAGAACTCATGTTCTTCTGGGACACCTGCCTGGGAACCTTCCCCT
 GCCAGGACTCAGCCTGAAGGAAGCTGCTCCTGAGGCAGGTATGAGGTGAGTGCCTAGGGC
 ACGTGGGACTGATGGAGGACATATCAGAGTGGCAGAGCTGTGGGCTCTGCTGTTCTCTCC
 TGCATCCTGTAGACTCACTTTTCTGAGTTCCATGCACTGCCCTGAGGGTAGCCATGCCCT
 TGCTTTGCCCAACTTTTTATTGGGCCATCCCTGAGTGGGTGGAGACCTGCTGTGATGAGC
 TGGCCAGGAGAACCTGCTATAAAAAAATCAAGGTTTTGTTTCTTTGAACTTACTCTGTTT
 TGATGCCAAATTGGAGACCATTTTTCTTGCTCTCTTCCCCCACTCATCCTGGCCTTCCCTG
 GAGTTCTTCTAGCCCAGAGCTCTGACAGTCCAGCAGGGTGGGAAGGAGGGAGTTTGGGC
 AAACCTCTCATCCCTGATACCACATTGAGATCCTGGGAGCCCTCTTTTCTGACTGAGTATG
 GAGTTGTAGAGCCATCCTAGGTGCCATCCCCTTTTGGTCCAAACATTGGGCAGCGCTAGA
 TGGCAGGAAGCAGCCTTGAAGACCCGTCTTTCCCCCACAGCAGCAGGGGCCCCAGCAGTA
 ACAAGGGTACCTCCAGGGGTTTGGGTAGCGCTGCCCTCTGGCAGTCATGCACCGCTGTC
 TGCCATAGCCGCTCTAGGGTCTTGGCAGAATTCTGAGCTTGAAGTGCAGCTCCCTTACTA
 CCCTTTCCCTTCTTTTTCTTCCCTAATAGGAGGTACAATCTGCTTTTGTGTTGTCGTTAA
 GTGGTCACTCCCATTTCTTTTATCTTGGCCGACAACACAGAGAGGAGGGGGAGCTGGGCA
 GTAGCTTGGGGTGGGGGTGGGCACCTGTGGTTGTTTTTAATGGGAAATACCTCTCAGAGA
 TGTTTCATGCAGGCTCCCTAGGGCCCCATCCCACTGCCAGGCTGGTTTTCCATGGAGATAGG
 GCACTGAGGCTCCCGTGGAGTTGGAATCGACTTCACCATGGGGGTCTTTCAGCCAGCATC
 CAGCTCCCCACCCCCAGGCTGGCAGTAGCACTGCTGAGATGCTGTATTTCCACCCAATTC
 TGGGTATATCAGTGTGTCTTGCAGAATCTTGGATCATTAAAGATAAACATATTTTT

Gene 600. >ENST00000274963 cDNA sequence

ACAGATTTCATGGGTGATTTAGCCTATCTGTCCCAGGCCAGCGTGGCTGAGTGTGCTGGCT
 GGAGGCCTCTCTCTGCTTCGAGGGTAGCTGAGATCCACCCCGAAACCGGCAGGATGA
 AGGGGGCAAGTGAGGAGAAGCTGGCATCTGTGTCCAACCTGGTCACTGTGTTTGAGAATA
 GCAGGACCCCAGAAGCAGCACCCAGAGGCCAGAGGCTAGAGGACGTGCATCACCGCCCTG
 AGTGCAGGCCTCCCGAGTCCCCAGGACCACGGGAGAAGACGAATGTGCGGGAGGCCGTGG
 GGTCTGAGCCCAGGACAGTCAGCAGGAGGTACCTGAACTCCCTGAAGAACAAAGCTGTCCA
 GCGAAGCCTGGAGGAAATCTTGCCAGCCTGTGACCTCTCAGGATCGGGGACGCAGGAGC
 CAGAGAAGAAGATCGTCCAGGAGCTGCTGGAGACAGAGCAGGCCTATGTGGCGCGCCTCC
 ACCTGCTAGACCAGGCCATGAGTGACCTGTGCTGGCGGCTACAGGTGTTTTTCCAGGAGC
 TGCTGAAGACAGCCCGCAGCAGCAAGGCCTTCCCAGAGGATGTGGTCAGGGTCATCTTCT
 CCAACATCTCCTCCATCTATCAGTTCCATTCTCAGTTCTTCTCCCAGAGCTGCAGCGGC
 GCCTGGACGACTGGACAGCTAACCCCCGCATCGGTGACGTGATCCAGAAGCTGGCCCCCT
 TCCTGAAGATGTACAGTGAGTATGTCAAGAACTTTGAGCGAGCGGCTGAGCTGCTGGCCA
 CCTGGACCGACAAGTCTCCACTCTTCCAGGAGGTTCTCACTCGCATCCAGAGCAGCGAGG
 CTTGCGGCAGCCTGACCTGCAGCACCATGCTGGAACAGTGCAGAGAATTCCACGTT
 ACGAGCTGCTGCTCAAGGAGTACATCCAGAAGCTGCCAGCCCAGGCCCCAGACCAGGCCG
 ATGCCCAGAAAGCCCTGGACATGATCTTCTCAGCTGCCAGCACTCCAATGCAGCCATCA
 CTGAGATGGAGCGGCTGCAGGACCTGTGGGAGGTGTACCAGCGCCTGGGCCTCGAGGACG
 ACATAGTAGACCCCTCTAACACCTGCTCCGTGAGGGCCCCGGTCTCAAGATCTCCTTCC
 GCCGCAACGACCCCATGGAGCGCTACCTTTTCTTGTTCAACAACATGCTGCTCTACTGTG
 TGCCAGGGTGATCCAGGTGGGCGCCAGTTCCAGGTGAGGACCCGCATCGATGTGGCCG
 GGATGAAGGTGCGGGAGCTGATGGATGCTGAGTTTCCCCACTCCTTCTGGTGTCCGGGA
 AGCAGCGCACCCCTGGAGCTGCAAGCCCGGTCCCAGGAGGAAATGATTTCTTGATGCAGG
 CCTTCCAAGCAGCCATTGACCAAATCGAGAAGCGGAATGAAACCTTCAAGGCTGCGGCC
 AGGGGCCTGAGGGAGACATCCAGGAGCAGGAGCTGCAGTCTGAGGAGCTGGGCCTCCGGG

FIGURE 1 (CONT'D)

CACCGCAGTGGGTCCGGGACAAGATGGTGACCATGTGCATGCGCTGCCAGGAGCCCTTCA
ACGCTCTGACGCGCCGTGCGCACCACTGCCGGGCCTGCGGCTATGTGGTGTGTGCCAGGT
GCTCCGACTACCGGGCCGAAGTAAATACGACGACAACAGGCCCAACCGAGTCTGCCTCC
ACTGCTACGCATTCTCACTGGAATGTGCTGCGCTGAGGCCAAGGAGGACAAGAGGCGGG
GCATCCTGGAGAAAGGGTCTCAGCCACGCCTGACCAGAGCCTGATGTGCAGCTTCCTGC
AGCTCATCGGGGACAAGTGGGGCAAGAGCGGCCCCCGGGGCTGGTGTGTGATCCCTCGGG
ATGACCCCTCGTGCTCTATGTCTATGCTGCCCCCTCAGGACATGAGGGCTCACACCTCCA
TCCCCCTGCTGGGCTACCAGGTGACTGTTGGGCCCCAGGGGGACCCTCGGGTCTTCAGC
TACAGCAGTCAGGCCAGCTCTACACCTTCAAGGCCGAGACGGAGGAGCTGAAGGGCCGCT
GGGTGAAGGCCATGGAGCGGGCGGCCAGTGGCTGGAGCCCCAGCTGGCCCAACGATGGGG
ACCTGTCCGACTGAGCCACTGCCAGCCGCTCTCCTGCCCCACCTCTCCCCACCCTGAACCC
AGCTCCTGCCACAGACTGACCCTGTGGCCTCAGTGACCCACTGCCCCAAGTGGTGCTTTC
AGAGAATTGATTAGCCATCTGCGCCAGGCCACGTGTCCCGATCTGGGATTAGAAAATA
TGGGTCCATTCTTTCTAGAAAGGGGACAACCAAGTGTCTCAGTTTGCCTTGCGGGGAGG
GGGCTCCTGGGCCATGGGACTTCCAGTGCTAAAACTGGGAAAGCCCCAGGTAACCCCGGA
CTGGTGGTCACCATAGTATGGTTTTTCAATTTGTATCTCCTGGGGAGCTTTTAAAGAGTAC
TGGTGAAAAACACATAGTAAATTAATTTTAAAAATGT

Gene 601. >ENST00000297147 cDNA sequence

AAATGGCGGCAGTTGGTGTGTTCTCGGTTTTCTCGGCTGCTGGGTGGTCCCGCCCCACAGC
TGGGGCGGCCTATGTGAGTGGCGCCCATGGAGAAGAGGGCTCAGCTCGCATGTGGAAGA
CCCTCACCTTCTTCGTGCGCTCCCCGGGGTGGCAGTCAGCATGCTGAATGTGTACCTGA
AGTCGCACCACGGAGAGCACGAGAGACCCGAGTTCATCGCCTACCCCATCTCCGCATCA
GGACCAAGCCGTTTTCCCTGGGGAGATGGTAACCATACTCTATTCCATAACCCTCATGTGA
ATCCACTTCCAAGTGGCTACGAAGATGAATAAAGAGAATCTGGACCACTACCCGGGCACC
AGGGACCACAGCACTGGTTTTGGACCATTACTCTGCACATGGACCAGAAAAAGTATATGGG
ACCTTAAGCTCACCTTCTTTACTTGTATCAAATGATGACTGGTATACTGGTCTCCCATCC
CTTTGCTTGTGGCGGGAGATGGCTTAAATAAATAACTTAAACTT

Gene 602. >ENST00000329942 cDNA sequence

CACGAGCTTGGTGATGAAGTCCTTTCAGCTGCGCCACGCCCTGGCGCACGGTGGGCTGCAG
CGGCTCCATCCAAGCCTCCTTGGCCCTGGAAGCCGGCGTGTCCATGTTGCCACGTTCTG
GACTGCCTGGAGGTGACAGCAGGAAGGACCAGGTTCTGCTAG

Gene 603. >ENST00000331556 cDNA sequence

GCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTACTCCCAGATCGTTAGGGTGCTGACTGAG
GATGAGATGGGGCACCCAGAGACAGGAGATGCTACTGCCCCGGCTCAAGGAGGTCTTGGAG
TACAATGCCATTGGAGGCAAGTATCACCGAGGTTTGATGGTGCTAGTAGCGTTCCGGGAG
CTGGTGGAGCCGAGGAACTGGATGCTGATAGTCTCCAGTGGGCACCGACTGTGGGCTGG
TATGCGCAACTGCTGCAAGCTTTCTTCTGCTGGTGGCAGATGACATTATGGATTTCATCCCTT
ACCTGCCAGGGACAGATCTCCTGGTATCAGAAGCTGGGCATGGGTTTGGATGCCATCAAT
GATGCTATCCTTCTGGAAGCATGTATCTACTGCCTGCTGAAGCTGTATTGCCGGGAGCAG
CCCTATTACCTGAACCTGATGGAGCTCTTCCAGCAGAATTCTTATCAGACTGAGATTGGG
CAGACCCTCGACCTCATCACAACCCCCCAGGGCAATGTGGATCTTCGCAGATGCACCGAA
AAAAGGCACAAATCTGTTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCCTGTA
GCTGCAGCCATGTACATGTCAAGAATGGATGACAAGAAGGAGCACACCAAGTGCCAAGAAG
ATCCTGCTGGAGATTCAAGAGTTCTTTTCAGATTTCAGGATGATTACCTTGACTTCTTTGGG
GACCCCAAGTGTGACTGGCAGAGTTGGCAATGACTTCCAGGACAACAAATGCAGCTGGCTG
GTGGTTTCAGTGTCTGCTACAGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTAC
AGGCAGAAGGAGGCCGAGAAGGTGGCCCCGGTGAAGGCACTATACGAGGAGCTGGATCTG
CCAGCCGTGTTCTTGCAGTATGAGAAAGACAGTTACAGCCACGTTATGGGTCTCATCGAA
TAG

Gene 604. >ENST00000307569 cDNA sequence

ATGGCCATGGCCCCAAGCCCTTCCCTGGTGCAGGTGTACACCAGCCCCGCAGCTTGGCTA
TGGCAGGATGGGCTGGGCACCTGGCACCCCTACAGTGCCACCATCTGCAGCTTCATCGAG
CAGCAGTTTGTCCAGCAGAAGGGCCAACGTTTTGGGCTTGGGAGCCTGGCCACAGCATC
CCCTTGGGCCAGGCAGACCCCTCGCTGGCCCGTTACATTATTGACCTCCCCAGCTGGACC

FIGURE 1 (CONT'D)

CAGTTCCGCCAGGACACCGGCACCATGCGGACTGTGCGGAGACACCTGTTCCCCAGCAC
TCAGCCCCTGGCCGAGGTGTCTGTCTGGGAGTGGCTGAGCGACGATGGCTCCTGGACCGCC
TATGAAGCCGGCGTCTGTGACGATCTGGAGCAGCAGGTGGCCAGGGGCAACCAGCTCGTG
GACTTGGCCCCCTGGGGTACAACCTACACTGTCAACTACACCACCCACACGCAGACCAAC
AAGACTTCCAGCTTCTGCTGCAGCGTGC GGCGCAAGCAGGGCCGCCTTACCCAGTGACC
ACCATCATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCAGTGCCTCAGT
GGCAGCAGAACTGGCCCTGTATCAGGCGCTACCGCCACTCCATGACCAACCTCCCTGCA
TACCCCGCCCCCAGCACCCCCCCCACAGGACCGCTTCTGTGTTTGGGACCCACCAGGCC
TTTGCACCATAACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCTGAACACC
ACGAACGCCTGGGACGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCTCTACCGCTCCAGC
CTCTCCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGCACTCAGT
GCCTCCCTCCCAGCGGTCCCTCAAGCAGCCCAGGGAGCGTCCCTGCCACTGTGCCCATG
CAGATGCCAAAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGGT

Gene 605. >ENST00000162863 cDNA sequence

ATGGAGAAGCTGTCCGCAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGG
CCCCTGGCTGTGGGCTGCCTCACCAAGTGCAGCCACGCCTTCCACCTGCTGTGCCTCCTG
GCCATGTACTGCAACGGCAATAAGGGCCCTGAGCACCCCAATCCCGAAAGCCGTTCACT
GCCAGAGGGTTTTCCAGTGCTACCTTCCAGACAACGCCAGGGCCGCAAGGGGCTTCCAG
AACCCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTAC
ATGACGCTGCCCCTGTCTCCGGACCAGCTGCCCTGTGACGACCCCATGGCGGGCAGCGGA
GGCGCCCCCGTGCTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAGCCCTTCTGCAAC
GCGCCCCCTCCCTGGCCCTGGACCCTATCGTACAGAACCTGCTAAGGCCATCAAACCTATT
GATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCA
GTGAAGGAGTTAGTAGAAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTT
AAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAA
AATTTCGAAGGCTTAATGATGTACCATTTCTACCTGCCACGTATCGGCAGAGGTTGGGA
CTCGACTGGTGTGTTGATCAGCATGGGAAAATCATCCAGAAAACCCCCTACCCCCACCCCA
GAGGGACCACAGTCAGCGTGA

Gene 606. >ENST00000333996 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCTCATCCA
CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCACGGAAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTCAATAAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTCCGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCCTCCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCCTAG

Gene 607. >ENST00000333628 cDNA sequence

GAAGAGTACCCTGATTGCATTGTGAACATCTTCAGTGTAGTGCCTTCACCCAAAGACACC
AAGGTCGAGCCCTACAGTGCCACCCTCTCTGTCCATCAGTTGGTAGAGAACTGATGAG
ACGTATTCCATTGACAATGAAGCCCTGTATAACATCTGCTCCACACTCTGAAGCGGACC
ACACCAACCTACAGGGATATGAACCCCTCGTCTCAGCAACCATGAACAGTGTATCACC
TGCCTCTGTTTCCCTGGCCAGCTCAATGCCGACCTCCACAAGTTGGCAGTCAACATGGTC
CCCTTCCCACATCTCCATTTCTTTATGCCTGGCTCTTCCCCTCTCACCAGCCATGGAAGC
CAGCAGTATCAACTCACAGTGTCTGAATTACCCAGCATGTCTTCAATGCCAAGAACATG
ATGGCTGCCTGTGAACCCCGCCATGGCTTATACTTCACTTGGCTGCTGTCTTCACTGGT
CAGATATCCATGAAGGACGTCAATGACAAAATGTTAAATATGAAAAACAAAACAGCAGC
TACTTTGTGGAATGGATCTCCAACAACGTCAAGAACAGTGACATCCCATCTCATGGCCTG
AAAATGTCAATCACTGGTATTGTCAACATGGTCATCCAGAAGCTCTTCAAGTACATCGCA
GATCAG

FIGURE 1 (CONT'D)

Gene 608. >ENST00000251624 cDNA sequence

CCTGCTTTGTTTCTTGTAAGTATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACT
GCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAATCCTTACTTTACAGTCTCTTTAGCTCTGAAACATCACACA
TCTAAGATTGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTTCAGGGGAAA
GCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACGTATCGGCG
AAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTAC
CCCCCCCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGC
CATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGC
CGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAACTG
GTAAGTGGAGAGCTACGGGCATGCAGAAGTTGGAAGACGAGGGAAGGCATCACAGAGGCT
GTGGGGTGA

Gene 609. >ENST00000305928 cDNA sequence

TGCATCCTTGGAGAGAGCTGAGAGCTCGAGGTACAGAACCTGCTAAGGCCATCAAACCTA
TTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTG
CGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAAGTAAGGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTT
GGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCCAC
CCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAG
GAATTTCAAAGGAATATTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCG
GAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAA
GAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGA
CTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTT
CGAAGGCTTAAGTCTGAAACATCACACATCTAAGATTGAGAGTTTGCCGACCTAACTCG
GGTTGAAACCTTTTGGCTTTTCAGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGT
CACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGA
TGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAA
GCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAA
ACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGC
CATGCTTCCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTC
CTTGAGGACAACGTGATCACTGTATTGAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAG
ATGA

Gene 610. >ENST00000320371 cDNA sequence

ATGTTGAAGCGAGGACGTGGTGGGTCTCTGGTGTGAAATTCCAGATTTCTTGGGTCTT
CTGGTAGGAGTGATCAGTTGTGCTGACAAACAGGAGCCAAAACCTGTATGTCATCTCC
AAGGGGATCAAGGGATGGCTGAACAGACTTCCCACTGCTGGTGTGGGTGACACGGTGATG
GCCACAGTCAAGAAAGGCAAAACAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTTATT
CGACAACGAAAGTCATACCGCAGAAAAGATGGCGTGTGTTCTTTATTTTGAAGATAATGCA
GGGGTCACAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCATTACAGGACCAGTAGCA
AAGGAGTGTGCAGACTTGTGGCCCTGGATTGCGTCCAGTGCTGGCAGCATTGCATGA

Gene 611. >ENST00000335396 cDNA sequence

ATGGTCATAGCGTATTTTCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCTTGTCTCAGTGAGCTT
TGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCTCTAG

Gene 612. >ENST00000302439 cDNA sequence

CCTGCTTTGTTTCTTGTAAGTATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACT

FIGURE 1 (CONT'D)

GCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAACTTCGAAGGCTTAATCCTTACTTTACAGTCTCTTTAGCTCTGAAACATCACACA
TCTAAGATTTCGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTTCAGGGGAAA
GCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACGTATCGGCG
AAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTAC
CCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGC
CATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGC
CGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAACTG
GTAAGTGGAGAGCTACGGGCATGCAGAAGTTGGAAGACGAGGGAAGGCATCACAGAGGCT
GTGGGGTGA

Gene 613. >ENST00000314850 cDNA sequence

AACTGATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGT
CCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGT
AGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAGCTTAAGGACTATGGAA
TGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCT
TAAGTAAGGTACCATTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGT
TTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAG
TCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATA
TTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAG
ATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAAC
AGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTC
ATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAAGTCTG
AAACATCACACATCTAAGATTTCGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGC
TTTCAGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGC
CACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAG
AAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACG
CTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCC
TTCGCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAG
CCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTG
ATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 614. >ENST00000311139 cDNA sequence

ATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTACCATTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTC
GCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCT
GCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 615. >ENST00000329846 cDNA sequence

GTAAGTGTGGGCCGGAAGGTGGAGGTCGTACGCTGTGAGGGCATCATCATTTCTGGCCAT
TTCTACAGATACAAGTTGAAGTACCTGGTCTTCTCCGCAAGCAGATGAACACCAACCT
TCCCAGGCCCCCTACCACTTCCGGGCCTCTAGCCGCACCTTCCGGCTGACCCGAGGCATG
TTGCCCCACAAGACAAAGCAAGGCCGGGCCCTGGAGCGCCTCAAGGTGTTTGACGGC
ATCCACCGCCCTATGACATGAAAAAGCGGATGGTGGTTCCTGCTGCCCTCAAGGTCATG
CATCTGAAGCCTACAAGAACTTTGCCTACGTGGGGCGCCTGGCTCACGAGGTTTGCTGT
AAGTACCTGGCAGTGGCATCTACCTGAAGGAGAAGAGGAAGGAGAAAGCCAAGATCCAC
TATCGGAAGAAGAAACAGCTCATGAGGCTATGGAAACCGGGTGAAAAGAACGTGGAGAAG
AAAAGTACAAATACACAGAAGCTCTCAAGACCCATGGACTCCTGATCTGA

Gene 616. >ENST00000311251 cDNA sequence

ATGGAAGTCCACATCCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAAGGAGAGTATC
CCGCTGTTACCTACGGCCTGATCAAACCTTGCTTCCTGTCTCCAAGACCAGGTGCAAG
TTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGATTC
CTAGAGCTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCCCTGAAC

FIGURE 1 (CONT'D)

GTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCCAGCCCATCGGCGTGACCAAGATCGCC
AAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTATGCTGTCCACGTAT
CAGACAGACTTTCATCCTGGTGC GCGAGCGGGACCTGCCCTTTGTCACCACACATTGTCA
TCAGAGTTTACCATCCTGCGGGTGTCAATGGCGAGACCGTGGCAGCCGAGAACCTCGGC
ATCACCAATGGCTTTCGTGAAGCCCCAAGCTGGTCCAGAGGCCAGTCATCCACCCACTGTCC
AGCCCCGAGCAACAGGTTCTGTGTCAACCAGCCTGGACCCCTGACACGCTGCCTGCTGTTGCC
ACACTCCTCATGGATGTTCATGTTCTACTCCAATGGAGTGAAGGACCCCATGGCCACTGGG
GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
GTGATGGACGTGCAGACGCAGCAGAGGTTTCTAGTAACTTGCTGTTTACAAGCGCATCC
GGAGAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCTGGGGTTTGATGAGTGTGGC
ATCGTGGCCCAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCCAGCCTACTACATCAGT
ACTTTCAAGTTTTGATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTTCATCAGTGCC
CTGAAGGTCAGCCAAGCAGAGAAGCACTAG

Gene 617. >ENST00000274884 cDNA sequence

CGCTCGTATCAGGCTTTCATGGCGGCGCGGCCACTGTCCCGGATGCTGCGGCGGCTTCTGA
GGTCCAGCGCCCCGAGCTGCAGCTCAGGGGCTCCGGTGACCCAGCCCTGCCCGGGGAGT
CCGCGCGAGCTGCCTCGGAGGAGGTGTCCAGGCGGAGGCAGTTTCTGCGGGAGCATGCGG
CCCCCTTCTCCGCTTCTCTCACAGACAGCTTCCGCCGCGCAGCACAGCTACCTGCGGATCT
CCCTCACAGAGAAGTGCAACCTCAGATGTCACTGTCATGCCCCAGGAGGGGGTCCCGC
TGACCCCCAAAGCCAACCTGCTGACCACAGAGGAGATCCTGACCCCTCGCCCGGCTCTTTG
TGAAGGAAGGCATCGACAAGATCCGGCTCACAGGTGGAGAGCCGCTTATCCGGCCGGACG
TGGTGGACATTGTGGCCCAGCTCCAGCGGCTGGAAGGGCTGAGAACCATAGGTGTTACCA
CCAATGGCATCAACCTGGCCCGGCTACTGCCCCAGCTTTCAGAAGGCTGGTCTCAGTGCCA
TCAACATCAGCCTGGACACCCTGGTGCCTGCCAAGTTTTGAGTTTATTGTCCGCAGGAAAG
GCTTCCACAAGGTTCATGGAGGGCATCCACAAGGCCATCGAGCTGGGCTACAACCCTGTGA
AGGTGAACTGTGTGGTGTATGCGAGGCCTTAACGAGGATGAACTCCTGGACTTTGCGGCCT
TGACTGAGGGCCTCCCCCTGGATGTGCGCTTCATAGAGTATATGCCCTTTGATGGCAACA
AGTGGAACTTCAAGAAGATGGTCAGCTATAAGGAGATGCTAGACACTGTCCGGCAGCAGT
GGCCAGAGCTGGAGAAGGTGCCAGAGGAGGAATCCAGCACAGCCAAGGCCTTTAAAATCC
CTGGCTTCCAAGGCCAGATCAGCTTTCATCACATCCATGTCTGAGCATTTTCTGTGGGACCT
GCAACCGCCTGCGAATCACAGCTGATGGGAACCTCAAGGTCTGCCTCTTTGGAACTCTG
AGGTATCCCTGCGGGATCACCTGCGAGCTGGGGCCTCTGAGCAGGAGCTGCTGAGAATCA
TTGGGGCTGCTGTGGGCAGGAAGAAGCGGCAGCATGCAGGCATGTTTCAGTATTTCCCGA
TGAAGAACCGGCCCATGATCCTCATCGAGTTATTTTTGATGTTTCCCAATTCCCCACCAG
CCAATCCAAGCATTTTTCTCCTGGGACCCGCTCCATGTTTCAAGGTCTAAGACCCAGAATGA
GTTTTCTCCAGCCAGGTGGCCACTTTATGGAAAGGATGCAGGGTCCCCCAGACCCCTCCTC
TAGCCCAGCAGCGGCTGGGGTCTGGCTCCTTTTCAAGACACTACACTTCCCGTGCAGACT
CAGATGCCAACTCAAAGTGCCTTAGCCCAGGTTTCTGGGCTTCTGCTGCCCCCTCAGGAC
CCCAGCTAACCTCAGAACTAACTCATGTGGACTCGGAAGGACGGGCAGCTATGGTAG
ATGTGGGCAGGAAGCCAGACACAGAGCGGGTGGCTGTGGCTTCAGCCGTGGTCTCTCTGG
GACCGGTAGCCTTCAAGCTTGTCCAGCAGAACAGCTCAAGAAAGGAGATGCCCTAGTGG
TGGCCCAGCTGGCTGGAGTCCAGGCAGCCAAGGTGACCAGCCAGCTGATCCCTCTGTGCC
ACCACGTGGCCCTGAGCCACATCCAGGTGCAGCTGGAGCTGGACAGCACACGCCATGCCG
TGAAGATCCAGGCATCTTGCCGGGCTCGGGGCCCCACCGGGGTGGAGATGGAGGCCCTGA
CCTCTGCTGCAGTGGCCGCCCTCACCTGTATGACATGTGCAAGGCTGTGAGCAGGGACA
TCGTGTTGGAGGAGATCAAGCTCATTAGCAAGACTGGTGGTCAGCGGGGGGACTTCCATC
GGGCTTAGCACCTGCCCTTCTACCCATGGCCCCACCCAGGCCTGGAGCTGGGATGCAATG
TAGGCTGAGGGAAAGACGTCAAGTTTCTTTAATCACAGTCACTGTTTGTGTTTACCTTGAGC
AGTAAACCCGAAGTCAGCCTGCTCTACTACTAAACAAACAGGCCTGCTGCTAGATGATCTC
TAATGACCAATGGGGCTTCTTTTCTATAGGGAGGATACCAGCAGGCCCTTAAGCCTTCCA
GGACACTAAGGTCTGTTGGAGCGGGACTGCAACAAGCAATGCCAGATAACTGAGAAATCAT
GTTCTTTGTGGACTATTTTCAACAACAGGTTCCGACAGTCCAGCCCAGAACTTTTCTTT
CTCATTTTGGGTTTTCTCTTCTCCTGCTTCTCCTGGGGAGAGATTAAAGCGCTCATTAAAGCA
GAGGAGCCCACTTTGAGGAGAGCAAAGCACAAAGCTTGCCTGAAGAATGGATCCCAACTTC

FIGURE 1 (CONT'D)

TCCCCGGCAGCTCTGCCTCCCTAAGTCTGTGAAGCCGCAGCCCTGCCCTGTCCTGTCTCTG
TCCTGACTTCATCTCTCCTTCTGCCCCAAGTCTGTGTCCCATCAGACTTGACGCTTTTCTAG
CTTAACAGTTGCCCCGGTCTGTCTGGCCCCCTTTTCTCTGGCCCCCTCTTCTGAAACAGG
ATGTGCACACATGGGCCATAGCCCTAAGGACTCCTGCCAGACCACACAGCCACACCTGG
CCCTGTTTACGGCTGTTCCACCCACCCCTCTTTATTCTGGAGCATATCAGGGAAAGAAAA
GTTGATGATAGATTGCCTTCACCTCAGAGCGCACAAATAAAGCTACGATGCCAACTTTG
CAGATGCAAGAATGAAGACACTGTGTGGGTAGGGCACTGAGCTGCTGCAGTTTACAGGG
AAGGCTGCACCTATCAATCAATCAATCAATCCTATCCCAAGACACAGTTCCCTGAGGGAA
GAAGAGGAGGGACCTGGAAAGGCCTAAGGGTGTACTCTCTGTATAGCCCCGCTATGGGAA
AATAAAGTGGAGTAGGGGGCAT

Gene 618. >ENST00000308559 cDNA sequence

GCCAGAAATCTTCCAGTAGAGATCACCATCCGCCCCGACCCCCAAGCTGAATACTTAA
GGGGTGGGTCTTCCCATCAAGCTGATTTCTCAACGAGAGGGACAATCCAGCTTCCCCA
ACATTGCAGAGCCCAACATGTGGAAGAGTTGGAAGCTCCGCACAGATGTCAGAGTAAGG
GAGGGGGCAGGCGGTTCTCCTTGTGCCTCTTCCAGCCCGGTAGCAGGGGGCCATGCTTC
CTCCCTGGTCTGTCTCGCAGGAGGTGTCCAGGCGGAGGCAGTTCTGCGGGAGCATGCG
GCCCCCTTCTCCGCCTTCTCAGACAGCTTCGGCCGGCAGCACAGCTACCTGCGGATC
TCCCTCAGAGAGAAGTGCAACCTCAGATGTCAGTACTGCATGCCCCGAGGAGGGGGTCCCG
CTGACCCCCAAAGCCAACCTGTGACCACAGAGGAGATCCTGACCCTCGCCCGGCTCTTT
GTGAAGGAAGGCATCGACAAGATCCGGCTCACAGGTGGAGAGCCGCTTATCCGGCCGGAC
GTGGTGGACATTGTGGCCAGCTCCAGCGGCTGGAAGGGCTGAGAACCATAGGTGTTACC
ACCAATGGCATCAACCTGGCCCGGCTACTGCCCCAGCTTCAGAAGGCTGGTCTCAGTGCC
ATCAACATCAGCCTGGACACCTGGTGCCTGCCAAGTTTGAGTTCATTGTCCGCAGGAAA
GGCTTCCACAAGGTGATGGAGGGCATCCACAAGGCCATCGAGCTGGGCTACAACCCTGTG
AAGGTGAACTGTGTGGTGATGCGAGGCCTTAACGAGGATGAACTCCTGGACTTTGCGGCC
TTGACTGAGGGCCTCCCCCTGGATGTGCGCTTCATAGAGTATATGCCCTTTGATGGCAAC
AAGTGGAACTTCAAGAAGATGGTCAGCTATAAGGAGATGCTAGACACTGTCCGGCAGCAG
TGGCCAGAGCTGGAGAAGGTGCCAGAGGAGGAATCCAGCACAGCCAAGGCCTTTAAATC
CCTGGCTTCCAAGGCCAGATCAGCTTCATCACATCCATGTCTGAGCATTCTGTGGGACC
TGCAACCGCTGCGAATCACAGCTGATGGGAACCTCAAGGTCTGCCTCTTTGGAACTCT
GAGGTATCCCTGCGGGATCACCTGCGAGCTGGGGCCTCTGAGCAGGAGCTGCTGAGAATC
ATTGGGGCTGCTGTGGGCAGGAAGAAGCGGCAGCATGCAGAGTTATTTTTGATGTTCCCC
AATTCCCCACAGCCAATCCAAGCATTTTCTCCTGGGACCCGCTCCATGTTTCAAGGTCTA
AGACCCAGAATGAGTTTCTCCAGCCAGGTGGCCACTTTATGGAAAGGATGCAGGGTCCCC
CAGACCCCTCCTCTAGCCAGCAGCGGCTGGGGTCTGGCTCCTTTTCAAGACACTACACT
TCCCGTGCAGACTCAGATGCCAACTCAAAGTGCTTAGCCAGGTTCTTGGGCTTCTGCT
GCCCCCTCAGGACCCAGCTAACCTCAGAACAACTAACTCATGTGGACTCGGAAGGACGG
GCAGCTATGGTAGATGTGGGCAGGAAGCCAGACACAGAGCGGGTGGCTGTGGCTTCAGCC
GTGGTCTCCTGGGACCGGTAGCCTTCAAGCTTGTCCAGCAGAACCAGCTCAAGAAAGGA
GATGCCCTAGTGGTGGCCAGCTGGCTGGAGTCCAGGCAGCCAAGGTGACCAGCCAGCTG
ATCCCTCTGTGCCACCACGTGGCCCTGAGCCACATCCAGGTGCAGCTGGAGCTGGACAGC
ACACGCCATGCCGTGAAGATCCAGGCATCTTGCCGGGCTCGGGGCCCCACCGGGGTGGAG
ATGGAGGCCCTGACCTCTGCTGCAGTGGCCGCCCTCACCTGTATGACATGTGCAAGGCT
GTCAGCAGGGACATCGTGTGGAGGAGATCAAGCTCATTAGCAAGACTGGTGGTTCAGCGG
GGGACTTCCATCGGGCTTAGCACCTGCCCTTCTACCCATGGCCCCACCCAGGCCTGGAG
CTGGGATGCAATGTAGGCTGAGGGAAAGACGTGAGTTCTTTAATCACAGTCACTGTTT
GTTTACCTTGAGCAGTAAACCCGAAGTCAGCCTGCTCTACTACTAACAAACAGGCCTGCT
GCTAGATGATCTCTAATGACCAATGGGGCTTCTTTCTATAGGGAGGATACCAGCAGGCC
CTTAAGCCTTCCAGGACACTAAGGTGCTGGGAGCGGGACTGCAACAAGCAATGCCAGATA
ACTGAGAAATCATGTTCTTTGTGGACTATTTTCAAGCAACCAGGTTCCGACAGTCCAGCCC
AGAACTTTTCTTCTCATTTTGGGTTTTCTCTTCTCCTGCTTTCTTGGGGAGAGATTAAG
CGCTCATTAAAGCAGAGGAGCCACTTTGAGGAGAGCAAAGCACAAGCTTGCTGAAGAAT
GGATCCCAACTTCTCCCCGGCAGCTCTGCCTCCCTAAGTCTGTGAAGCCGCAGCCCTGCC
CTGTCTGTCTGTCTGACTTCATCTCTCCTTCTGCCCAAGTCTGTGTCCCATCAGACT

FIGURE 1 (CONT'D)

TGCAGCCTTTTCTAGCTTAACAGTTGCCCGGTCTGCTGGCCCCCTTTTCTCTGGCCCCCCT
CTTCTGAAACAGGATGTGCACACATGGGCCATAGCCCTAAGGACTCCTGCCAGACCACAC
AGCCACACCTGGCCCTGTTTACGGCTGTTCCACCCACCCCTCTTTATTCTGGAGCATAT
CAGGGAAAGAAAAGTTGATGATAGATTGCCTTCACCCCTCACAGCGCACAAATAAAGCTAC
GATGCCAACTTTTGCA

Gene 619. >ENST00000335010 cDNA sequence

ATGGTCATAGCGTATTTTCTAGCCGGGCGGCCTCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCTTTGCTCAGTGAGCTT
TGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCTAG

Gene 620. >ENST00000310939 cDNA sequence

TTTCCCAGTCCCCGAGGCGGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCTCGAGT
ACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCT
GGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGAT
GCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTT
TCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTGAAGGCTTAAGTCTGAAACATCAC
ACATCTAAGATTCAAGAGTTTGGCGACCTAACTCGGGTTGAACTTTTGGCTTTTGGGGG
AAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACGTATCG
GCGAAGGTTGGGACTCGACTGGTGTGATCACGATGGGAAAATCATCCAGAAAACCCCC
TACCCCCACCCAGAGGGACCAAGTCAAGCGTGAAGCAGTTATTTTCTACGCTACCTGTG
CGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTC
TGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTGCAAAA
CTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTGATCACTGTA
TTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 621. >ENST00000325462 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCTGAGTGCGAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG
ATGGAATCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCCCTGTTGGCCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCCAAACGTATTGGTTTCGATGAAGGAAGGGCCCATGGTTCTGCCACTGG
CCCTGGACACCCAGTGTGGTTTCCCGTGGAAAGTCCCCCTGGACTGAGTGGCGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCCTCTCCGGGCACAGCCAGATCCACC
CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCTCACAGAGGATTCACTCACTCTGTTT
AGAATCCCAGGACTCCCTAGGGAAGGAGGTCCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCACCTAAACCA
GGTGGTCAATCAGGGAGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGCAGTGAGATTC
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGTCTGGGGGCTCACC
CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT

FIGURE 1 (CONT'D)

CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAACAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGAATGAGAGTCTCATCTTGGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCT

Gene 622. >ENST00000275590 cDNA sequence

AGAATGTAATGCCGCCGTCGGTAGGGGTCTGCCGGGCATAAAGGGGCCTTCGGAACCCCA CCAGAGTCAAGCCAGGAAGGGCAGCGGGGCGCACCAGGCCGAAGGCTCAGCCACAGGG AGGGCAGCTAGGACATGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACG CCCCCGGCCAGTCCCTGTACGAGCGGTAAAGTCAGAGGATGCTGGACATCTCGGGGGACC GGGGCGTGCTGAAGGACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTT CCGTGCTAGTGAAATACTATGGATACCTGGAACACTTGACAGACCTTCGATTCTAATT ACTTTAGGAAAACCTCCTCGGCTAATGAAACTTGAGAGGATATTACATTGTGGGGCATGG AGCTGGGCCTTCTGAGCATGCAGAGAGGAGAGCTGGCCAGATGCTTCGTCTTGGGTAAAC TCCTCGACTCCCAAGGCCCCAGCCTCCATCTTTACCTCAGAGCCTCCTGAACCTCCTCCT CCAGCCTCACCTTCTCCAGCCTCACCACTCCTCCCTGGACCTGCAGCTCCGCACCCCCG GGGGCCTCAGAACTACCCCTTCCAGGGCCTCAGAACTACCCCTACAGTTTCTCCTGCGTA ACCTTCTGCCTACCTTCTGAGAGTGGTTGGTGACAGCAGCCGGGGCTAGAAACCTCGAG GCGACTGTGCTTGAGTCTCTCTTGTCTTTACATCCCAAATCCCATCAATTGTACGCC TTGTGCTTCCGCTCTCAAATATTAGAAAGCAGATGTATGCTGGGCACGGTGGTGACT CAAGCCTATAATCCAGCACTTCGGAAGGCGGAGGCAGGAGGATCGCTTGAGGCCAGGAA TTTTAGACCAGCCGGGGCAACATAGTGAAACCCCATCTCTAC

Gene 623. >ENST00000323819 cDNA sequence

GAGCATGATGGGGCATGTGCGGGAGCGCCAGGCGGGGCATGTAACCAGAGCGTGCGGGC ATGATGGGGCACGGACATGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAGG ATGGGGCATCTAACTGGAGCGACAGAGAGCAGATGGGGCACTTACAGGGGCCGGAGGCT GGCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACCGGC TTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACT CCTACTGCAAGGGCTGCCTGGTTTTCCCTGTCTACCACTGGACACCAAGGTGCGCTGCC CCATGTGCTGGCAGGTGGTGGACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGG TGATCGAAGCCCTGAGGCTCCCTGGGGACCCAGAGCCCAAGGTCTGCGTGCAACACCGGA ACCCGCTCAGCCTTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGC TGGGCTCCCAACACCAACCCCGGTACGCCCCGTCTCCACCGTCTGCAGCCGCATGAAGG AGGAGCTCGCAGCCCTCTTCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCA TCGCCAAACTGGTGAAAAACCGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGG TGATCCGCCGCGAGTTCAGGAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCC TGGAGGGGATAGGGGGTCAACCCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGC AGGCCCAGGGAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTCCGGCA ATGAGGACCACCATGAGTTTCATCTGGAAGTTCCAATCCATGGCCTCCAGGTAATAACCTT GGAGAGAGCTCAGCCAGGGTCTGGTGGCTGCGGGCAGGGCATCTCAGCTCCACTGGTTC CTCCATTAGCTTAACAGCGCCTCCCAAGCAGCTGCCTATAGCTGGCTCTATAACTGAG CCTGGGGAAGATAGAGGAAAGTCACATCCCTGCCTTCAAGGGTCTCGCAGACAGGTGGGG AGGCAGATGGTGAACTGTGGGTACCTAGAACAGCAGAAGTTCACTCAAGCTACAGAAATA CTAGAGGAGGGTAGCTCATGCCTGCAATCCAGTACTTTGGGAGGCCAAGGCAGGAGTAT TGCTGGAGGCCGGGAGTTCGAGACCAGCCTGGCCAATGTAGTAACACCCCGTCTCTACA AAAAATACAAAATAAAAAAATTAGTTGGG

Gene 624. >ENST00000323788 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGGAACATGGGGCTGTACGCTGCGGTGGCA GGCGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC AACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCGAAGAAGCTGCAGCCGCAC CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGTGGGGGCCAA

FIGURE 1 (CONT'D)

TGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT
 TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
 CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
 TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCAGCCTTGATGACTTACAAGCC
 CTCAAGGGGAAGCATTTTCTCCTGGACTCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCC
 CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
 GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCCGCCAGGCTCCCATGTATCGATGCCT
 GTGCCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGA
 TCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGGG
 TTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATC
 CGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGTCAGTGGCTCGGGTATGC
 CGAGCAGACAGCTGGAGGATCCCGGGGCAGGGACACCTAGCCCGGTGCGTCTGCATGCCC
 TGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCTTCCCTGCAGCGGC
 TCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACCAGATGCGC
 TGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAG
 GCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTTA
 GCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGG
 CCAAAGCATCAGCACCAGAACGCACACCCAGCCCAGCCCCAAAGAGAAAGAAGAGACAGC
 AAAGAGCCGCAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCAGGCTGACT
 CCTTCTGTTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCTGGGCCCTCACCG
 CAGGCAGCAGTTTGCATTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCT
 GGTGAGCAAAAGTGTTCCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 625. >ENST00000257665 cDNA sequence

ATGTCTCCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGCGGATAGCGAGTGTG
 AGGGACGGCCGGGGCCGGGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCTTCTCGGCCTGTG
 CTGGTGGCCCTCCTACTGTACCTCGTGCCTGCTGCGGCTGCGCTGGCCTGGCTGGCCGTG
 GGGACTACCGCGGCTGGTGGGGACTGAGCCGCGAGCCCCGAGGTTGCGGCCCCCTTGTC
 TCCTTCGTTTCAAGGCGCGACATCGGCGAACACTGTTTCGCTTCGCCTCCGGCCAAGTCG
 ACAGCCAACGGAAACCTCCTAGAGCCGCGGACCTGCTCGAAGGACCTGACCTGCCGAA
 CTGCTCCTCATGGGCAGTTACCTGGGCAAGCCCGGGCCGCGCAGCCCCGCCCCGCTCCG
 GAGGGCCAGGACCTGCGGAATAGGCCTGGCCGCGCCGCCCCGCGCCGCGCGCGC
 TCCACACCGCCCTCCCCGCGGACCCATCGCGTTTACCACCTTTTACCCCTCTCTCCCCACT
 CCTCTTCTCCGACCTCCGGGAGGCCTTCCCCACGGGATCGTGGGACTTTACCAGATCGG
 TTTGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGG
 GTACTTCCACAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCCTCGCAAC
 TCCAGGATGGTGTGTAGCCAGTGACTGTGAGGATCGCCCCCTCCTGACAGAAGATTTTCA
 CGTTCGTGCATACCAGAGCAGATAATCAGCTCAACACTGTGTCACCATCAAGTAATGCC
 CCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGG
 ACAGTGGAGGAAGAAGACCAATATTCCTTGATGGCCAGGAAAATAAAAGAAGGCGCCAT
 GATAGCAGTGGCAGTGGACATTGAGCATTGAGCCCCCTGGTGGCCAGTGGAGTCCCCGCT
 TCTTTTGTGCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGAC
 CACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACACAAGT
 GGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCCTACAGCTCCACTCGAGGCATC
 TCACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCCAGCCTCATCC
 CGCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTCATCAT
 TCCAGTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCCAGGGAGAAAAGGCTGCAGAT
 ACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAG
 CGTAAGCGGAAAGTTGAGCTGTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCCTCA
 CCTCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
 TTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGTGATGCTGCCTCGAACTCTGTCACT
 GAGACCCACCTACCACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCAACTGCC
 TCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAG
 ATGCAGACTCCCCGAGCCTGCCACCCTGCCCAGAATCTGCTGGAGCAGCAACCACTGAG
 GCCCTCTCACCTCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGG

FIGURE 1 (CONT'D)

CCGCCAGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCTGGGG
 CTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAA
 GCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGC
 TTCCTGTTTGGAAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCCCTGCTGCATCTTCA
 GCATCTCCCATGTTCAAGCCCATTTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
 ACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACC
 ACCAGCACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCT
 GTGCCCTTGCCCTGCTCCCTTCTTCAAGCAGACAATACTACTCCCGCCACTGCTCCCACCACA
 ACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCT
 GCCAGTCCATCCACAGACTCTGCTTCAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
 AGCAGCAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTTCCTC
 TTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATGGGCTCCATATTCCAG
 TTTGGCAAACCTCCTGCCTTGCCCCAACACCACAGTCACCACCTTCAGCCAGTCCCTG
 CCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTGGCAGC
 ACCCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCACTAACACG
 AGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATAT
 CCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCC
 AAGCCAGCCCTTACCCCCAGCTTTGGCAGCTCTTTCACCTTTTGGAACTCTGCAGCCCCG
 GCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCAC
 GTGCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAA
 GCCACGGCTTCCGCCTTCCGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGTCCACT
 GCTGTCTTCTCCTTCCGCTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCAGACCGCC
 AGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACACCATCACCTTTCAGTTCGGG
 GGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCC
 AGCGCCACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCC
 ACCCCCTTTCACAGGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGCCAGAGCACACCG
 TTTGCCTTCAACGTGGGCAGCACAACCTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACC
 CCCACCTTTGGTTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGGCAGCAGCCTCTCC
 TTTGGGGCATCTTTCAGCACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGATCGGCG
 GCCCCCTTCATTTTCCATTGGTGCGGGATCCAAGACCCCGGGGCTCGACAGCGACTGCAG
 GCCCCAAGGCAGCACACCCGCAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCACC
 CCTTCCCTAAATCTGGACCTTGGCACGTGCTAGAAAGAGCCTTGGACCTTCCAGCTGCG
 TAAAGCAAACCTACCCCGGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGG
 GCCCTTTCCCTTCTGGAGGAAGCACAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGC
 CAAAGCCCGGGACCTCTACTTGAACAGTTTCACTGGGGAGGCTGGAGAACTAAGGACCTG
 TACATAGTGTCCGCTGCCCTGACTCCCGCTTAGCGCACCTTAGGCAGGCGCCCCCTTCCA
 CCTTCCCCGAGAGCCGTCGTGCTGGAGGGGGCAGGGTCCAGCCCGCCTGGATCGGTGG
 TGTGCACCTGATGGGATTTGGGAAATGGGTTATCCCTAAAGCTTTATCTTGCTTGGCTTA
 GCTGTGAGAAGTGGTTCTCTTCTCTGGTCCCTTCTGGGGACTCTGTTTCCCATTCTT
 GCTGCTGTGTCCCTCACCGGTTCTTTCAGGATTCCCTCCTTTTTAAATGCCCTTGAATC
 TAGCTTTGCCTTGGAGACCCAGTGGGTGCTGCTCCTGCCGTTTTCTTCTGCCAAGCCT
 GAATCAATGTTTTCATCTCCAACCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAA
 GACTGTTAGCCTGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCC
 CACCGCTGCTTCAGCTGCCTCCTCGCCAGCTACCCTTTGGCCCCATTGGGCCCCCTGCTCT
 GCCTCTCCAGGATTGTATGTTTTCAAGCCTTGTCTGTGTTCTTTGTCTGACGCTCTGTG
 TATTGCTCTTTGAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGG
 TAGTGCCGGACTTCTGTTTTCAAGTTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAG
 CACCACTTGACGGCTACAAGTGCCGACTCCTGAATTTTCCCATGGTGTCTGACTTCAAG
 GGCTGGCAGCCAGGGAGAATGGGCCAGGGGAAGCAAAGACCTCTTCCCTCTGCGGTTTT
 TGTCCCACTTAACTGACCTCACTGGAGGCTACGTCAACCAAAGTAGATGTTAGAAAACCT
 AAATTAATGAACCATATTTTTTAAATCCTATTTTTCCCAAACAGGGCCCTCTGCAGCCCA
 TCCTTTCTTCCGTCCTTCTGAAACCATACCCAGGCCCAAGCGCCTTGCTGTACGC
 CCAACCTCTTTGGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 626. >ENST00000317042 cDNA sequence

FIGURE 1 (CONT'D)

ATGATCTCAGCTCACTGCAGCAACCTCCACTTCCTGGGTTCAAGCGAGTCTCCTACATTG
GCCTCCCAAGTAGGTGAGATTACAGGCACTCACCACCACACGCGGCTAATTTTGTATTT
TTGGTAGAGACGGGGTTTACCATTGTTGGCCACGCTGGTCTTGAACCTGACCTCAAGT
GATCCACCCACCTTGGCCTCCCGAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCGG
CCTCATGGAATTTCTAGGGGTGAGCAGGTGACCCTGGGGCTGCCACTTGAGCTCCTGGAG
TGTGTGTCTTGGCCCTGTGTGGTTCTCCATTAAGAAAAGCTCAGATAGTCTCAACCCCA
CCCTCTCCCCTTGCTGCACTCAGAGTACCAGTGGGAGCTGAAGGATGGGGAGGAACAGAG
CAGTGA

Gene 627. >ENST00000329959 cDNA sequence

GGACTGGTGTAAAGGGTCACGCAAGATGGCGGCGCCAGAGGCTGCTGAGGCGCGGAACG
GAGGATGGCGCTGGTGGCGTTGGTGGCTGGGGCTCGGCTGGGGCGGCGGCTGAGCGGGCC
GGGGCTGGGGCGAGGGCACTGGACGGCGGCCAGGCGCTCCCGAGCCGGCGCGAAGCGGC
AGAAGCCGAGGCGGAGGTGCCCCTGGTCCAGTACGTGGGCGAGCGCGCTGCCCGCGCCGA
TCGCGTCTTCGTGTGGGGCTTCAGCTTCTCGGGGCGCTGGGCGTGCCTTCCTTTGTGGT
GCCAGCTCCGGGCCCCGGCCCCGCGCCGGCGCCGACCGCGCCGAGGATCCAGCCCGT
GCCCTATCGCCTGGAGCTGGACCAAAAGATTTTCATCTGCTGCTTGCGGCTATGGATTAC
ACTGCTGTCTCTAAGACTGCGGATGTTACGAAAGTCTGGGGGATGGGACTCAACAAAGA
TTCTCAGCTTGGATTTTACAGGAGCCGGAAGATAAAACGAGGGGCTACGAGTATGTGTT
GGAGCCCTCACCCGTCTCCCTGCCTCTGGACAGACCTCAGGAGACACGGGTGCTGCAGGT
CTCCTGCGGCCGAGCTCACTCTCTTGTGTTGACTGACAGGGAAGGAGTCTTCAGCATGGG
AAACAATTCTTATGGGCAATGTGGAAGAAAGGTGGTCAAAAATGAAATTTACAGTGAAAG
TCACAGAGTCCACAGGATGCAGGACTTCGATGGCCAGGTGGTCCAGGTGCCTGTGGTCA
GGATCATAGTCTGTTCTGACGGATAAAGGAGAAGTCTATTCTTGTGGATGGGGTGTGA
TGGGCAACAGGTCTGGGTCACTACAATATCACCAGCTCGCCACCAAGCTGGGTGGAGA
CCTGGCGGGAGTGAACGTTATCCAAGTTGCCACCTACGGTGATTGCTGCCTGGCCGTGTC
CGCCGACGGAGGACTTTTTGGTTGGGGAAACTCGGAGTACCTGCAGCTGGCCTCTGTAC
TGACTCCACACAGGTGAATGTGCCCCGCTGCTTACACTTCTCAGGAGTGGGAAGGTGCG
ACAGGCTGCATGCGGTGGCACGGGCTGTGCAGTGTTAAACGGAGAAGGACATGTTTTTGT
CTGGGGCTATGGAATTTCTTGGGAAAGGTCCAAACCTAGTGGAAGTGCCGTCCCTGAAAT
GATTCACCCACTCTCTTTGGCTTGACGGAGTTCAACCCAGAAATCCAGGTTTCCCGCAT
CCGATGTGGACTCAGCCACTTTGCTGCACTGACCAACAAAGGAGAGCTGTTTGTATGGGG
CAAGAACATCCGAGGGTGCCTGGGAATCGGTGCGCTGGAGGACCAGTATTTCCCATGGAG
GGTGACGATGCCTGGGGAGCCTGTGGACGTGGCATGTGGCGTGGACCACATGGTGACCTT
GGCCAAGTCATTCATCTAA

Gene 628. >ENST00000334260 cDNA sequence

GAAAGAAAGAGAAAAAGGAGGGCGAGTGGCGAGCAGGGGCCTCGGCCGCCACCCACACGC
CCCGAAGCGTGCTCGTCCCCCGCGCGGGGCTCCCGGCCGCCCGCCCTCGGCCATCGGCTGC
TCCCCGGTGGCCAGGCCTCGGACTCCGCGGCCGGCCCGGCGCGGCCAGCGCCCTCAGG
GATCATGGCCAGGTAGCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCCTCCTCAGAGAC
CAGGATGGTGGTGACATTCTCTGTCTGCCCCCTGAATCCATGTGTAAAGAACTGGCCAA
GTCCAAGGCAGAAAGTGGCCTGCATCGCAGTGTACGAAACAGACGTGTTTGTCTCGGAAC
CGAGAGAGGATGCGCTTTTGTAAATGCCAGGACGGATTTTCAGAAAGATTTTGCAAAATA
CTGCGTTGCAGAGGGACTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGT
CCACTCGGGCGAAACGGAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTTA
TGGTAAAGCCTTAGGGACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGA
CCAGTCGGCTGTGGTAGTGACAGGGGCTTCCGGAAGGCGTTGCCTTTCAACACCCTGAGAA
TTACGACCTTGCAACCCTGAAATGGATTTTGGAGAACAAAGCAGGGATTTTCATTCATCAT
AAATAGACCCTTCTTAGGACCAGAGAGTCAGCTGGGTGGCCCTGGGATGGTAACAGATGC
GGAGAGATCCATAGTATACCAAGTGAAAGCTGCGGCCCATCAATGTGAAAACCTGAACC
CATGGAAGATTCTGGTGGGTACCAAGATGCTTTTAGAATCAAGTATCGGCCAAGCGTGGT
AGCTCACGCCTGTAATCCAGCAATTTGGGAGGCCGAGGCAGGCGGATCACTTGA

Gene 629. >ENST00000312575 cDNA sequence

CTTTCAGGAAGCCACCCTTCTTCCACAAGCAATGAAGTAATAGAAATGGAATTACCAATG
GAAGATTCCACTCCGCTGGTCCCTTCAGAAGAACCAATGAGGACCCTGAAGCCGAGGTG

FIGURE 1 (CONT'D)

AAAATCGAAGGAAACACAAATTCATCCAGTGTTACAAATTCCTGCAGCAGGTGTTGAAGAT
CTTAACATCGTTCAAGTGACTGTTCCAGATAATGAGAAGGAAAGATTATCAAGCATTGAA
AAGATTAAACAGCTAAGAGAAACAAGTTAATGACCTCTTTAGCCGAAAATTTGGTGAAGCA
ATTGGCGTGGATTTCCCTGTGAAAGTTCCCTACAGGAAGATCACATTCAACCCTGGCTGT
GTGGTGATTGATGGCATGCCCCGGGGGTGGTATTCAAGGCCCCGGCTATCTGGAAATC
AGTTCCATGAGGAGGATCTTGGAGGCAGCTGAGTTTATCAAATTCACAGTCATCAGGCCG
CTTCAGGGCTTGAGCTCAGTAATGTGGGAAAACGCAAGATAGACCAGGAGGGCCGTGTG
TTTCAAGAAAAGTGGGAGAGAGCGTATTTCTTCGTGGAAGTACAGAATATTCCAACATGT
CTCATATGCAACAAAGCATGTCTGTGTCCAAAGAATATAACCTAAGACGCCACTATCAA
ACCAATCACAGCAAGCATTATGACCAGTATACGGAAGAATGCGTGACGAGAAGCTTCAC
GAGCTGAAAAAAGGGCTCAGGAAGTATCTCTTAGGCTCGTCAGACACCGAGTGTCCCGAG
CAAAAACAAGTGTGTTGCAACCCCAAGTCCAACCCAGAAATCCCCCGTCAGCCTGTAGAG
GACCTAGCTGGGAACCTTATGGGAGAAGTTACGTGAAAAAATCAGGTCTTTTGTGGCATAT
TCTATCGCAATCGATGAGATCACGGATATAAATAATACCACCCAGTTGGCCATATTTCATC
CGTGGTGTGATGAGAATTTGATGTGTCCGAAGAATCTCTGGACACGGTGCCCATGACG
GGTACAAAATCTGGCAACGAGATCTTTTTGCGTGTGAGAAGAGCCTGAAAAAGTTCTGT
ATCAACTGGTTCGAGATTAGTAAGCGTGGCCTCCACTGGCACCCAGCGATGGTGGATGCC
AATAACGGGCTTGTCAAAAACCTGAAGTCCAGGGTGGCGACGTTCTGCAAGGGTGCAGAA
CTGAAGTCCATCTGTTGTATAATTCATCCGGAATCACTCTGTGCTCAGAAGTTGAAGATG
GACCACGTGATGGACGTGGTAGTGAAGTCCGTGAAGTGGATATGCTCCCGGGGACTGAAC
CACAGCGAGTTTACAACCTTGCTCTATGAGCTGGACAGCCAGTATGGTAGCCTCCTGTAC
TACACGGAGATTAAGTGGCTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTGAATCCTTG
GAAGAAATCGACTCCTTCATGTGATCCAGAGGGAAACCCCTGCCTCAACTGAGCTCCATA
GATTGGATCCGAGACCTGGCCTTCTTGGTTGACATGACGATGCATCTGAACGCTTTGAAC
ATCTCTCTCCAAGGACACTCCCAAATCGTCACGCAGATGTATGACCTGATCCGGGCGTTT
CTAGCAAACTGTGCCTCTGGGAGACTCATTTGACGAGGAATAATCTGGCCCACTTTCCC
ACCCTGAAATTGGTTTTCCAGAAATGAAAGCGATGGCCTGAACTACATTCCCAAATCGCG
GAACTCAAGACCGAATTCCAGAAAAGGCTGTCTGATTTCAAACCTACGAAAGCGAACTG
ACTCTGTTTCAGCTCCCCGTTCTCCACGAAGATCGACAGTGTGCACGAGGAGCTCCAGATG
GAGGTTATCGACCTGCAATGCAACACGGTCTTGAAGACGAAATACGACAAGGTGGGAATA
CCAGAATTCTACAAGTACCTCTGGGGTAGCTACCCGAAATACAAGCACCATTGCGCAAAG
ATTCTTTCCATGTTTCGGGAGCACCTACATCTGCGAACAGCTGTTCTCCATTATGAAACTG
AGCAAAACAAAATACTGCTCCCAGTTAAAGGATTCCAGTGGGATTCTGTACTCCACATC
GCAACGTGA

Gene 630. >ENST00000297905 cDNA sequence

ATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCC
AGCCAGCACTATGTGAGTAGCTGGTACATGTTCTTGGTGAAATGGCAGGACCTGTCCGAG
AAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGAAATG
TTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGCT
CCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACACCAGGGCACACTTACCGAGTAC
TGCAGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGACTTC
TTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACAGACAACAGACAAAAAAGCCAGAG
ACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATC
CTGCAGACGTACCGCGCCATTGCCGACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTG
TCCACGGGGGACGTGGTGGAGGTGCTGGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTGAG
ATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCTTGAC
GAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTGCGCCATCAAGGCCTAC
ACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCAATCAC
AAGCTCCTGGACGGCTGGTGGGTGATCAGGAAAGACGACGTACAGGCTACTTTCCGTCC
ATGTACCTGCAAAAGTCGGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCGGGGG
GCGCCGCCCCGAGGTGCTCCATCCGCAACGCGCACAGCATCCATCAGCGGTGCGGGAAG
CGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTCTGACGAGCGACGCGCGC
CAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCGC
CGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGCCGAGCGCCGACCTCATCCTGAACCGC

FIGURE 1 (CONT'D)

TGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCCC
AGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTACATACGTGTTCTATAGAGCCTGGC
GTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAA
ATGTTGCTTGGAGTGG

Gene 631. >ENST00000335657 cDNA sequence

ATGGTCATAGCGTATTTTCAAGCCGGCCGGCCTCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTGCTCAGTGAGCTT
TGTTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCCTAG

Gene 632. >ENST00000311576 cDNA sequence

TTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATT
TGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGT
CTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATT
GAAGTTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAACTCTGAAA
CATCACACATCTAAGATTGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTT
CGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTC
GCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCT
GCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 633. >ENST00000329909 cDNA sequence

ATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTCAACATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTC
GCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCT
GCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 634. >ENST00000314503 cDNA sequence

GCCCCGGCGGCAGCTGTCCCCGAGGCGGGAGGAGCCCGAGGGGCGCGAGCCCCGCATGGAT
TTTATATTGGAAGACATGGATCTTGCTGCCAACGAGATCAGCATTATGACAACTTTCA
GAGACTGTTGATTTGGTGAGACAGACCGGCCATCAGTGTGGCATGTGAGAGAAGGCAATT
GAAAAATTTATCAGACAGCTGTGGAAAAGAATGAACCTCAGAGACCCCCCGCAGTAT
CCTCTCCTTATAGTTGTGTATAAGGTTCTCGCAACCTTGGGATTAATCTTGCTCACTGCC
TACTTTGTGATTCAACCTTTTCAAGCCATTAGCACCTGAGCCAGTGCTTTCTGGAGCTCAC
ACCTGGCGCTCACTCATCCATCACATTAGGCTGATGTCCTTGCCATTGCCAAGAAGTAC
ATGTCAGAAAATAAGGGAGTTTCTCTGCATGGGGGTGATGAAGACAGACCCTTTCCAGAC
TTTGACCCCTGGTGGACAAACGACTGTGAGCAGAATGAGTCAGAGCCCATTCTGCCAAC
TGCACTGGCTGTGCCAGAAAACACCTGAAGGTGATGCTCCTGGAAGACGCCCCAAGGAAA
TTTGAGAGGCTCCATCCACTGGTGATCAAGACGGGAAAGCCCCTGTTGGAGGAAGAGATT
CAGCATTTTTTGTGCCAGTACCCTGAGGCGACAGAAGGCTTCTCTGAAGGGTTTTTTCGCC
AAGTGGTGGCGCTGCTTTCTGAGCGGTGGTTCCCATTTCTTATCCATGGAGGAGACCT
CTGAACAGATCACAATGTTACGTGAGCTTTTTCTGTTTTCACTCACCTGCCATTTCCA
AAAGATGCCTCTTTAAACAAGTGCTCCTTTCTTACCCAGAACCTGTTGTGGGGAGTAAG
ATGCATAAGATGCCTGACCTATTTATCATTGGCAGCGGTGAGGCCATGTTGCAGCTCATC
CCTCCCTTCCAGTGCCGAAGACATTGTGAGTCTGTGGCCATGCCAATAGAGCCAGGGGAT
ATCGGCTATGTGACACCCCACTGGAAGGTCTACGTTATAGCCAGAGGGGTCCAGCCT
TTGGTCATCTGCGATGGAACCGCTTTCTCAGAACTGTAGGAAATAGAAGTGTGCACAGGA
ACAGCTTCCAGAGCCGAAAACAGGTTGAAAGGGGAAAAATAAAAAAAGATGAAA

FIGURE 1 (CONT'D)

CTGCTTTCTGGGGGTGGTTACTTAGTTACCTGCCCTTTGCATGCATGTGTGAACCAGCT
 GTGAGCTGCAAGGCAGTGGCCAGAGCCTCGCCCTCCTGACTCTTCCTGCAGGTGGCTCAG
 GAAGGATTGAGCCTGGCCACTTGGCTAGGACTCTGCCAGCACCCATCTGAGACTGACCTC
 TTCGGGCCTTTGGAACTATGACCTTGATGCTGCCCTTCAGGCAGGAAACAGGGCTGGT
 GCCTTTCTTCACCTGCATGGCCAGCTTCCTTCCTGGCAGTGGAGAGGGCAGCCAACAGG
 TTCTAATGTCAGAGCCATCCTTTACCAGGTGGGCCTGCTTGTCCCTGTCTTGCCCTGCCAC
 ATCACTCTACTTTTTTGAAGGCCATGGCTGATTAAAGAAGTTCTTGTAGTTTTCCAAGCA
 AAGTGGAATCTAGAAACAGTGAAGAAAGTTGAGATAACTTTGAATTGCATTCAAGAAGTA
 CACTTCTTTCCCATTTGTCGGTGGCTCTTGGAGTCTCCGTGATGCCAGGCTAGAGTCTGAT
 TATATAATAATTCAAATGGTAACTCCCAAGGTAATGCTTTCTTCCATTTTCATCAGGTTTC
 TTTTATCCCCACTGCACCCCCCTCCCTTCTCCCTTGCCCTATCTGGATGGCTTCTCAGAAG
 CTCGGCCCTAGTCTCCCTGCCCTTGGCGGGGCCAGAGCCCACTACTGCTGAGGCAGCACT
 GCTCTCGTCAGCTGTGTTGCCTTTACCAAGTGTCTTCAGAGGGTTATGAGTTAGAGTAGC
 TGGCCTGGGGAGAGGGTGCCTCCCTGGGTTTGATCTTTAGGGTCTGACTTTCTGCAGAGA
 AGATGTTTTACAGATGTGTCAAAGCTGATGTAATGTGGTTGGGGAGGAAATCCAGACCC
 AAAGTGTGTGTCAGCTGGGTGTACAACCTGCCTATGTGATCCTCTGTCTTAAATGATTTTC
 TGTCTGTGCTGCGAAACAAAGACAAGGTGAGGTGTTTTCTTTTTTTGTAATAATATAAAG
 CTGTGTGTTTTCTGATTGGATGATTCACTATGTGCATTGTTTTCTCCTAAGTGCTTTTAGT
 AGGTAGCAATCAAATGGTGTAAATAAGGATGTTCTTTTCTGTTCTTTTTATTTTTTTCT
 CTCTTTATTATTCTTTTATTGACACCACTAGATAGCTGGCCACTGGTCATGCCATTGCCA
 AGATGAAGAAAAGCAAACCTACACTTTGGCCTCTGGTTCTGAATTGCAGAAATCAAAGGA
 TGCAGTAGGTGTCTATGTGAGAATTATGGATCAGAGGCAGACAATGACGAGTGAAGATGG
 TTGTGAAGCCCTCTTCATTCTGGAGGAGCCTGCATCTCATCTCTCAGGCCCTCTTCTC
 TGTGGGTCTCATGAACAGCAGTGGGGACCATTGAGCACTTGAATGGCCTGTTTGTCTATG
 GGCTTGCAAAGGACAAGCAGAGTTCACAGAGCTCAGGATAGAAACATCAGAGCCTCCTCC
 ACGGGCTTCAGTGAAACTCCGATGAACTGTACCTGAGGGAATTTTTCTTAATCAACCCC
 TTGTGTGGATGAATACAGGAACAACAAACTTGTGTACGTATGAAAGTCATGTTGTTAAG
 CAGTTATGATTTAAGAGGTTTTAAGTCAGAGGGATCATCTGGAGGCCGGCTTTGTGCAAG
 CTTTTACAGCCTTCTGCAGTGTCTTACCCTGGCTGTACATGGGGAAGGGCTATGTGTAA
 ACAAGTGCTTTAGAGGCCTCTGAGAGTTTTTAAATCAGACCCATTAAACAAAGAGAGG
 GTTTCTTAGGAACAAAGCAACTATTTTGATTACTGAGATCTCTGTTTTGTTTCTGTGAGT
 TACTCTGTATTCTTTTCCCATTTCACCTTGGCCCTTCACATCTTAAATGTCCATAAGAA
 ACCCTTGATGTGTTGGTATTCTGAGGCATCCCGTGGGAAAGTCCCCTAAGTCCCATTTT
 GTACTTCAACAAAAATGACTGTAGCAGAAGATAAGTGGAGACTTTTATGGATATACTAC
 TCATTTTACTTAAATCTACCCAGTTGAGACTTGAATGTAAACTTGTATTAGGGGAAAT
 TCTCAAAGAGGGTTTTCTACATACACAGAAGCAGTTCAACTTCTCAAGTTAATTTTGAT
 AAGCAGAATCTACTACTGGCCAGAGCGACAGGAGTGGCTAGGGGTTGCCAGCCAGTCCCT
 TTCTGATGATCAAGGCCCTGCACAGCAGGATGCCACAGGATGCCCTGCCATCTAGCTGG
 AAGCATCAAAAGTCCCTCTGTATGACCCGGTGTGGGAAAGAGGGTTGTGAGGATGAGAAA
 GTGGGGCTGCAGGGTGACGATAAGACCACCTAACCAACTCCCCACCTCCACCACCACAAT
 AAGAACAAAACCTGTAGGGCTCTAAAGAGAGGGGGTGGTTTACAAGTTTATTGAGCATTTA
 CTAGGAAGTGACATGGCGATGACCTCTGTACATGAGTTAGGTTCACTTTTCATGTGGCCTC
 CCACTACAGAGATGCGTATGCCAGAAAGTCAGCTCTCTGAGGAGACAGGCTACTTTGGCC
 CCAGTTTGAAGCATTCTGTCCAAATGTCTGAGCTCTCCAGCAGTCAAGTAGTGAATGGA
 TACCATACTTATTATGGTTGATGAAAAAAGGCAGAGCTTATCCTCAATTTTTTTTAGGGA
 AGAGAAGGAATAAAATAAAGTGGTTCAAGCTGGGCATGGTGGCTCACACCTGTAATTGC
 AGCACTTTGGGAGGCTGAGGCAGGCAGATCACTTGAGGTGAGGAGTTCAAGACCAGCCTG
 GCCAACAGGGTGAAACCCCATCTCTACTAAAAATACAAAAATTACCCAGGCGTGATGGTG
 GCGCCTGTAATCCAGCTACACAGGAAGCTGAGGCAGGAAATTGCTTGAACCGGGGAG
 GCGGAGATTGCAGTGAGCCAAGATTGTGCCACTTCATTCCAGCCTGGGCGACAGAGCGAA
 ACTCTGTCAAAGGAAAGG

Gene 635. >ENST00000297048 cDNA sequence

CCTGGGTGCAACCAGTCACAGCTCTGCAGAGGTTACTGTGATTTTGGCCCTGAAGGATCT
 GTCCACAACCTTAGGAACTCACACAGCTTTTGGCCTGAGCCCCCGTTACCAAGAGAAAGGA

FIGURE 1 (CONT'D)

GGTTTTTGCCAAGGACTCCAAGGGGAGTGCACCTTGATGCTGGTCTGGGACCCAAAGCGCCC
AGCCCTCCCTGAGACATTGTGTGAGTCGGGCTGGGCCTCAAACACGGCCCCCACTGCCCC
ACCCAGCCAGGGTGGTGCTTGTGTGGGAAGGACTTTAAATCCAGCTGCCAGACCCCTGG
ACGGGAGAAGGAGAGACGGCTGGCCACCATGCACGGCTCCTGCAGTTTCTGATGCTTCT
GCTGCCGCTACTGCTACTGCTGGTGGCCACCACAGGCCCCGTTGGAGCCCTCACAGATGA
GGAGAAACGTTTGTATGGTGGAGCTGCACAACCTCTACCGGGCCAGGTATCCCCGACGGC
CTCAGACATGCTGCACATGAGATGGGACGAGGAGCTGGCCGCCTTCGCCAAGGCCTACGC
ACGGCAGTGCGTGTGGGGCCACAACAAGGAGCGCGGGCGCCGCGGCGAGAATCTGTTTCGC
CATCACAGACGAGGGCATGGACGTGCCGCTGGCCATGGAGGAGTGGCACCAAGAGCGTGA
GCACTACAACCTCAGCGCCGCCACCTGCAGCCAGGCCAGATGTGCGGCCACTACACGCA
GGTGGTATGGGCAAGACAGAGAGGATCGGCTGTGGTTCCTACTTCTGTGAGAAGCTCCA
GGGTGTTGAGGAGACCAACATCGAATTACTGGTGTGCAACTATGAGCCTCCGGGGAACGT
GAAGGGGAAACGGCCCTACCAGGAGGGGACTCCGTGCTCCCAATGTCCCTCTGGCTACCA
CTGCAAGAACTCCCTCTGTGAACCCATCGGAAGCCCGGAAGATGCTCAGGATTTGCCTTA
CCTGGTAAGTGAAGCCCCATCCTTCCGGGCGACTGAAGCATCAGACTCTAGGAAAATGGG
TACTCCTTCTTCCCTAGCAACGGGGATTCCGGCTTTCTTGGTAACAGAGGTCTCAGGCTC
CCTGGCAACCAAGGCTCTGCCTGCTGTGGAAACCCAGGCCCCAAGTTCCTTAGCAACGAA
AGACCCGCCCTCCATGGCAACAGAGGCTCCACCTTGCGTAACAAGTGAAGTCCCTTCCAT
TTTGGCAGCTCACAGCCTGCCCTCCTTGGATGAGGAGCCAGTTACCTTCCCCAAATCGAC
CCATGTTCTTATCCCAAATCAGCAGACAAAGTGACAGACAAAACAAAAGTGGCCTCTAG
GAGCCCAGAGAACTCTCTGGACCCCAAGATGTCCCTGACAGGGGCAAGGGAAGTCTTACC
CCATGCCAGGAGGAGGCTGAGGCTGAGGCTGAGTTGCCTCCTTCCAGTGAGGTCTTGGC
CTCAGTTTTTCCAGCCAGGACAAGCCAGGTGAGCTGCAGGCCACACTGGACCACACGGG
GCACACCTCCTCCAAGTCCCTGCCCAATTTCCCAATACCTCTGCCACCGCTAATGCCAC
GGGTGGGCGTGCCCTGGCTCTGCAGTCGTCTTGGCAGGTGCAGAGGGCCCTGACAAGCC
TAGCGTCGTGTGAGGGCTGAAGTCCGGCCCTGGTCATGTGTGGGGCCCTCTCCTGGGACT
ACTGCTCCTGCCTCCTCTGGTGTGGCTGGAATCTTCTGAAGGGGATACCACTCAAAGGG
TGAAGAGGTGAGCTGTCTCCTGTCTCTTCCCCACCTGTCCCCAGCCCCCTAAACAAGA
TACTTCTTGGTTAAGGCCCTCCGGAAGGGAAAGGCTACGGGGCATGTGCCTCATCACACC
ATCCATCCTGGAGGCACAAGGCCTGGCTGGCTGCGAGCTCAGGAGGCCGCTGAGGACTG
CACACCGGGCCACACCTCTCCTGCCCCCTCCCTCCTGAGTCCTGGGGGTGGGAGGATTTG
AGGGAGCTCACTGCCTACCTGGCCTGGGGCTGTCTGCCACACAGCATGTGCGCTCTCCC
TGAGTGCTGTGTAGCTGGGGATGGGGATTCTAGGGGCGAGATGAAGGACAAGCCCCACT
GGAGTGGGGTTCTTTGAGTGGGGGAGGCAGGGACGAGGGAAGGAAAGTAACTCCTGACTC
TCCAATAAAAACCTGTCCAACCTG

Gene 636. >ENST00000259958 cDNA sequence

GCGGGAGCCGGAGCTGGAGCCGGAGCTCGCGGCGGAGCGGCGGGGGTTCGAGGCTCGA
GCTCGCGATCCACCGCCCGCGCACCGCGCATCCTCGCCACCCTCGGCCTGCGGCTCAG
CCCTCGGCCCGCAGGATGGATGGCGGGTCAGGGGGCCTGGGGTCTGGGGACAACGCCCCG
ACCACTGAGGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCCATCCCCTG
CTCTACGTGAAGCTGCTCATCCAGGTGGGTGATGAGCCGATGCCCCCACCTTGGGACC
AATGTGCTGGGGAGGAAGGTCTCTATCTGCCGAGCTTCTTACCTACGCCAAGTACATC
GTGCAAGTGGATGGTAAGATAGGGCTGTTCCGAGGCCTGAGTCCCCGGCTGATGTCCAAC
GCCCTCTCTACTGTGACTCGGGGTAGCATGAAGAAGTTTTCCCTCCAGATGAGATTGAG
CAGGTTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCC
TACGAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCACCCCCTGCATGTCTCTCA
ATGCGCTGCATGGTCCAGTTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGCTGAGCTCC
ATTGGGAAGATTTTCAAAGAGGAAGGGCTGCTGGGATTCTTCGTTGGATTAATCCCTCAC
CTCCTGGGCGATGTGGTTTTCTTGTGGGGCTGTAACTGCTGGCCACTTCATCAATGCC
TACCTGGTGGATGACAGCGTGAGTGACACCCAGGGGGCTGGGAAACGACCAGAATCCA
GGTTCACAGTTCAGCCAGGCCCTGGCCATCCGGAGCTATACCAAGTTTCGTGATGGGGATT
GCAGTGAGCATGCTGACCTACCCCTTCTGCTAGTTGGCGACCTCATGGCTGTGAACAAC
TGCGGGCTGCAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGC
TGGAAGTACCTGAGTGTGCAGGTGAGCAAGCACTGGACGGCGGAGGCCTTTCCTGTTCTT

FIGURE 1 (CONT'D)

TGCTACATCCTTCAGCTGAAATGGTTTTGTGGATGCTTCATTGCATGCAAAGATAAGTGG
 TTTTCATGGAATTCATATTTGTGAGGAGATACTTGGTATCTATAAGGCATTTAAGTTTTCA
 TCTTACATAATTTAGAAAGGATTTGAGGTGGCTAAGTGTGGGTTTATTTTAAGATTATA
 CATCAGACAAGACCTTTTCTTCTTTGAGTCTTAAAGACTCTTAGGATAAGGATAAGAGAA
 CTCTGGCCAGGTGGCAGGTGGTAAAGCCCAAGAACTGCTTCTCCTTCAAGTAACATGGG
 CTGAAAATTCGAGGTCTGTAAACAGTTGAGCTGAGTTCCTGGGTTGTTAGGGCGGCTGGC
 ATTGAAACCGACTCCTCCCTCCTGCAGGACATTCTGGGCCAGGAGAGCCTGTGGGTG
 GGGCTGGGCCACGTGGGGAACCTGGCAGCAGTACCAACCTTGGGTTCTCGTGTTCTGTACC
 GAAGCTACCTCTCCGTAGCTGGAGCTCTTGGGCCAGCAGTCAGGGGTCCAGGCTTTGGC
 CGAGGGCAGAACCTTGCCTTTTCTGGCCTTGATTTGCCTCGCAGTGAAATGGGGCAGTG
 GCCCGAGGGAGCCAGAACTCTGAGTGGCCTCGAGGCTGAGAAGAGGACAGATGGGAGGG
 AAGCAGGGAGGAGAGCCGAGTTCTTCCAGTGGCCCTGGTCAGCGTGAGTGTGTCTCGT
 CCTCCCTATGAGCACTGAAAGAGTCTTAGACCACTTGGGCTCTGAAGCAAGAGGGGCAAT
 GAGCCTCCTCTCTAGGGCTCTCCTACAGAGTAGCCCCAAGACACCCCTGGGCAGGAAAT
 GAACCGCTCCCTTCTGCTTCAACACAGGCAGATTCTGCCCTCCAGGGATGTAGGCCGAGG
 CCGTCCACCCCGGAGCTGGGTCTTTGAGCTCCTGGACCCCTTCTTTGCCTGACACTGGCCT
 TCCTCTCGGAGGGACAAGGAAGCGTGGCCTCCCTTTCACTCACCTTACTTTTCTTCTGG
 TCCAGGGCCAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCTCAGGATCAT
 GCTTTGCCCTGGAGTAACCTGAATCATCTAAAAACACGGTCTCAACCTGGCCACCGTGG
 GTGAGGCCTGACCACCTTGGGACACCTGCAAGACGACTCCAACCCAACAACAACAGATG
 TGCTCCAGCCAGCCGGGCTTCAGTTCATATTTGCCATGTGTCTGTCCAGATGTGGGGT
 TGAGCGGGGTGGGGCTGCACCCAGTGGATTGGGTCAACCGGCAGACCTAGGGAAGGTGA
 GGCGAGGTGGGGAGTTGGCAGAATCCCATACCTCGCAGATTTGCTGAGTCTGTCTTGTG
 CAGAGGGCCAGAGAATGGCTTATGGGGGCCAGGTTGGATGGGGAAAGGCTAATGGGGTC
 AGACCCACCCCGTCTACCCCTCCAGTCAGCCAGCGCCCATCCTGCAGCTCAGCTGGGA
 GCATCATTCTCCTGCTTTGTACATAGGGTGTGGTCCCCTGGCACGTGGCCACCATCATGT
 CTAGGCCTATGCTAGGAGGCAAATGGCCAGGCTCTGCCTGTGTTTTTCTCAACACTACTT
 TTCTGATATGAGGGCAGCACCTGCCTCTGAATGGGAAATCATGCAACTACTCAGAATGTG
 TCCTCCTCATCTAATGCTCATCTGTTAATGGTGATGCCTCGCGTACAGGATCTGGTTAC
 CTGTGCAGTTGTGAATACCCAGAGGTTGGGCAGATCAGTGTCTCTAGTCTACCCAGTTT
 TAAAGTTTCATGGTAAGATTTGACCTCATCTCCCGCAAATAAATGTATTGGTGATTTGGA
 Gene 637. >ENST00000332017 cDNA sequence
 GGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTGAGAGGATCGTCCGCCTG
 TTGGTGGAAGAGAAGGAACTGAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGACCAGAA
 TTGAGAGAGGAATTTTCTAAGCTCCAGAAACAAGACCAAGATGACAGTGCTAGAAGGAGAC
 ATTCTGGATCAGTCATGCCTGAAGAGAGCCTGCCAGGACATCTCGGTAGTCATCCACACC
 GCCTCTATCATTGACATCTTCGGTGTCACTCACAGAGAGTCTATCATGAACTTCAACGTG
 AAAGGTACCCAGCTCCTGTTAGAGGCCTGTGTCCAAGCTAGTGTGCCAGTCTTCATCTAC
 ACCAGTAGCATAGAGGTAGCCGGGCCCAACTCCTACAAGGAAATCATCCAGAATGGCCAT
 GAAGAAGAGCCTCTGGAAAAACATGGCCCCGCTCCATACCCACACAGCAAAAAGCTTGCT
 GAGAAGGCTGTACTGGCGGCTAACGGGTGGAATCTGAAAAACGGCGGCACCCTGTACACT
 TGTGCCTTACGACCCATGTATATCTATGGGGAAGGAAGCCGATTCTTTTCTGCTAGTATA
 AACGAGGCCCTGAACAACAATGGGATCCTGTCAAGTGTTGGAAAGTTCTCCACTGTTAAC
 CCAGTCTATGTTGGCAATGTGGCCTGGGCCACATTCTGGCCTTGAGGGCCCTGCAGGAC
 CCAAGAAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACACGCCTCAC
 CAAAGCTATGATAACCTTAATTACACCTGAGCAAAGAGTTCCGGCCTCCGCTTGATTCC
 AGATGGAGCTTTCTTTTATCCCTGATGTATTGGATTGGCTTCCTGCTGGAAATAGTGAGC
 TTCCTACTCAGGCCAATTTACACCTATCGACCGCCCTTCAACCGCCACATAGTCACATTG
 TCAAATAGCGTATTACCTTCTCTTATAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCA
 CTCTACAGCTGGGAGGAAGCCAAGCAGAAAACGGTGGAGTGGGTTGGTTCCCTTGTGGAC
 CGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGATTTAAGGATGACAGAGATGTGCAT
 GTGGGTATTGTTAGGAGATGTCAAGCTCCACCTCCTGGCCTCATACAGAAAGTGAC
 AAGGGCACAAGCTCAGGTCTGCTGCCTCCCTTTCATACAATGGCCAACTTATTGTATTTC
 CTCATGTATCAAAACCTGCGCAGTCATTGGCCCAACAAGAAGGTTTCTGTCTAATCAT

FIGURE 1 (CONT'D)

ATACCAGAGGAAAGACCATGTGGTTTGTCTGTTACCAAATCTCAGTAGCTGATTCTGAACA
ATTTAGGGACTCTTTTAACTTGAGGGTCGTTTTGACTACTAGAGCTCCATTTCTACTCTT
AAATGAGAAAGGATTTCTTTCTTTTAAATCTTCCATTCTTTCACATAGTTTGATAAAAA
GATCAATAAATGTTTGAATGTTT

Gene 638. >ENST00000331050 cDNA sequence

GGGATGAGGCAGTAAGGACTTGGACTCCTCTGTCCAGCTTTTAAACAATCTAAGTTACGCC
CTCTTCTGGGTCACGCTAGAATCAGATCTGCTCTCCAGCATCTTCTGTTTCTGGAAGT
GTTTCTGCTACTTTGGATTGGCCACGATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGA
GGGCTTCTGGGTGAGAGGATCGTCCGCCTGTTGGTGAAGAGAAGGAACTGAAGGAGATC
AGGGCCTTGGACAAGGCCTTCAGACCAGAATTGAGAGAGGAATTTTCTAAACTCCAGAAC
AAGATCAAGCTGACAGTGCTGGAAGGAGACATTCTGGATGAGCCATTCTGAAGAGAGCC
TGCCAGGACGTGTGCGTCGTATCCACACCGCCTGTATCATTGATGTCTTCGGAGTCACT
CACAGACAGTCTATCATGAATGTCAATGTGAAAGGTACCCAGCTCCTGTTAGAGGCCTGT
GTCCAAGCTAGTGTGCCAGTCTTCATCTACACCAGTAGCATAGAGGTAGCCGGGCCCCAAC
TCCTACAAGGAAATCATCCAGAATGGCCATGAAGAAGAGCCTCTGGAAAACACATGGCCC
GCTCCATACCCACACAGCAAAAAGCTTGCTGAGAAGGCTGTACTGGCGGCTAACGGGTGG
AATCTGAAAAACGGCGGCACCCTGTACACTTGTGCCTTACGACCCATGTATATCTATGGG
GAAGGAAGCCGATTCTTTCTGCTAGTATAAACGAGGCCCTGAACAACAATGGGATCCTG
TCAAGTGTTGGAAAGTTCTCCACTGTTAACCCAGTCTATGTTGGCAATGTGGCCTGGGCC
CACATTCTGGCCTTGAGGGCCCTGCAGGACCCCAAGAAGGCCCAAGCATCCGAGGACAG
TTCTACTATATCTCAGATGACACGCCTCACCAAAGCTATGATAACCTTAATTACACCCTG
AGCAAAGAGTTTCGGCCTCCGCCTTGATTCCAGATGGAGCTTTCTTTTATCCCTGATGTAT
TGGATTGGCTTCCTGCTGGAAATAGTGAGCTTCCTACTCAGGCCAATTTACACCTATCGA
CCGCCCTTCAACCGCCACATAGTCACATTGTCAAATAGCGTATTACCTTCTCTTATAAG
AAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAAA
ACGGTGGAGTGGGTTGGTTCCCTTGTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACT
CAGTGA

Gene 639. >ENST00000235547 cDNA sequence

ATGACGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCTGGGACAGAGGATCATC
CGCCTCTTGGTGAAGGAGAAGGAGCTGAAGGAGATCAGGGTCTTGGACAAGGCCTTCGGA
CCAGAATTGAGAGAGGAATTTTCTAAACTCCAGAACAGACCAAGCTGACAGTGCTGGAA
GGAGACATTCTGGATGAGCCATTCTGAAGAGAGCCTGCCAGGACGTCTCGGTATCATC
CACACCGCCTGTATCATTGATGTCTTCGGTGTCACTCACAGAGAGTCTATCATGAATGTC
AATGTGAAAGGTACCCAGCTCCTGTTAGAGGCCTGTGTCCAAGCTAGTGTGCCAGTCTTC
ATCTACACCAGTAGCATAGAGGTAGCCGGGCCCCAACTCCTACAAGGAAATCATCCAGAAT
GGCCATGAAGAAGAGCCTCTGGAAAACACATGGCCCCGCTCCATACCCACACAGCAAAAAG
CTTGCTGAGAAGGCTGTACTGGCGGCTAACGGGTGGAATCTGAAAAACGGCGGCACCCTG
TACACTTGTGCCTTACGACCCATGTATATCTATGGGGAAGGAAGCCGATTCTTTCTGCT
AGTATAAACGAGGCCCTGAACAACAATGGGATCCTGTCAAGTGTTGGAAAGTTCTCCACT
GTTAACCCAGTCTATGTTGGCAATGTGGCCTGGGCCACATTCTGGCCTTGAGGGCCCTG
CAGGACCCCAAGAAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACACG
CCTCACCAAAGCTATGATAACCTTAATTACACCCTGAGCAAAGAGTTTCGGCCTCCGCCTT
GATTCCAGATGGAGCTTTCTTTTATCCCTGATGTATTGGATTGGCTTCCTGCTGGAAATA
GTGAGCTTCCTACTCAGGCCAATTTACACCTATCGACCGCCCTTCAACCGCCACATAGTC
ACATTGTCAAATAGCGTATTACCTTCTCTTATAAGAAGGCTCAGCGAGATCTGGCGTAT
AAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAAAACGGTGGAGTGGGTTGGTTCCCTT
GTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGA

Gene 640. >ENST00000303184 cDNA sequence

ATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTGAGAGGATCGTCCGC
CTGTTGGTGAAGAGAAGGAACTGAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGACCA
GAATTGAGAGAGGAATTTTCTAAGCTCCAGAACAGGACCAAGCTGACTGTACTTGAAGGA
GACATTCTGGATGAGCCATTCTGAAAAGAGCCTGCCAGGACGTCTCGGTGTCATCCAC
ACCGCCTGTATCATTGATGTCTTGGTGTCACTCACAGAGAGTCCATCATGAATGTCAAT
GTGAAAGGTACCCAGCTACTGTTGGAGGCCTGTGTCCAAGCCAGTGTGCCAGTCTTCATC

FIGURE 1 (CONT'D)

TACACCAGTAGCATAGAGGTAGCCGGGCCCAACTCCTACAAGGAAATCATCCAGAACGGC
CACGAAGAAGAGCCTCTGGAAAAACATGGCCCACTCCATACCCGTACAGCAAAAAGCTT
GCTGAGAAGGCTGTGCTGGCGGCTAATGGGTGGAATCTAAAAAATGGTGATACCTTGTAC
ACTTGTGCGTTAAGACCCACATATATCTATGGGGAAGGAGGCCCATTCCTTTCTGCCAGT
ATAAATGAGGCCCTGAACAACAATGGGATCCTGTCAAGTGTTGGAAAGTTCTCTACAGTC
AACCAGTCTATGTTGGCAACGTGGCCTGGGCCCACTTCTGGCCTTGAGGGCTCTGCGG
GACCCCAAGAAGGCCCAAGTGTCCGAGGTCAATTCTATTACATCTCAGATGACACGCCT
CACCAAAGCTATGATAACCTTAATTACATCCTGAGCAAAGAGTTTGGCCTCCGCCTTGAT
TCCAGATGGAGCCTTCCTTTAACCTGATGTACTGGATTGGCTTCTGCTGGAAGTAGTG
AGCTTCCTACTCAGCCCAATTTACTCCTATCAACCCCCCTTCAACCGCCACACAGTCACA
TTATCAAATAGTGTGTTACCTTCTCTTACAAGAAGGCTCAGCGAGATCTGGCGTATAAG
CCACTCTACAGCTGGGAGGAAGCCAAGCAGAAAACCGTGGAGTGGGTTGGTTCCCTTGTG
GACCGGCACAAGGAGACCTTGAAGTCCAAGACTCAGTGA

Gene 641. >ENST00000256586 cDNA sequence

ATGACAGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCTGGGTGAGAGGATCATC
TGCCTGTTAGTGGAGGAGACAGAGCTGAAGGAGATCAGGGCCTTGGACAGGCCAAATCAT
TCCAATGACCTAACCTCTGCTCACACAGAACTCCAGAACAAGATCAAGCTGACAGTGCTG
GAAGGAGACATTCTGGATGAGCCATTCTGAAGAGAGCCTGCCAGGACGTGTCGGTCGTC
ATCCACACCGCCTGTATCATTGATGTCTTCGGAGTCACTCACAGACAGTCTATCATGAAT
GTCAATGTGAAAGCATGCTCTTTCTGGGCGGGTACCCAGCTCCTGTTGGAGGCCTGTGTC
CAAGCTACTGTGCCAGTCTTCATCTACACCAGTACCCTCCAGTTAGCCGGGCCCAACTCC
TACAAGGAAATCATTGAGAATGCCCATGAAGAAGACTTTCTGGAAAACACATGGTCTGCT
CCATATCCATACAGCAAAAAGCTTGTGAGAAGGCTGTGCTGGCAGCTAATGGGTGGACT
CTGAAAATGGTGATACCTTGTACACTTGTGCCTTAAGACCCATGTATATCTATGGGGAA
GGAAGCCCATTCTTACTGCCAATATAAATGAGGCCCTGAACAACAATGGGATCCTGTCG
AGTGTGAGCAAGTTCTCCACAGCCAACCCAGTCTATGTTGGCAACGTGGCCTGGGCCAC
ATTCTGGCCTTGAGGGCCTTGGCGGACCCCAAGAAGGCCCAAGTGTCTAGGACAGTTC
TACTATATCTCAGATGACACGCCTCACCAAAGTTATGATAACCTTAATTACATCCTGAGC
AAAGAGTTCCGGCCCCTGCCTTGATTCCAGATGA

Gene 642. >ENST00000286193 cDNA sequence

ATGATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCCGGGTGAGAGGATTGTC
AACCTCTTGGTGAAGGAGAAGGAGCTAAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGA
TCAGGATTGAGGGAGAAATTTTCTAAGCTCCAGAACAAGACCAAGATGACAGTGCTAGAA
GGAGACATTCTGGATCAGTCATGCCTGAAGAGAGCCTGCCAGGACATCTCGGTAGTCATC
CACACCGCCTCTATCATTGACATCTTCGGTGTCACTCACAGAGAGTCTATCATGAACTTC
AACGTGAAAGGTACCCAACAGCTGTTGGAGGCCTGTGTCCAAGCTAGTGTGCTAGTCTTC
ATCCATACCAGCAGCATACAGGTAGCCTGGCCCAACTCCTACAAAGAGATTTTCCAGAAT
CGACACAAAACAGAGCATCTGGAAAACACATGGTCTGCTCCATATCCATACAGCAAAAAC
TTGCTGAGAAGGCTGTGCTGGTGGCTAATGTGTGGACTCTGA

Gene 643. >ENST00000263166 cDNA sequence

ACTCCAGTCTCCTGGGACTTTGACTCGCCGTAAGTCTCGGCGCGCTCCTGCTGAGGGTCGCGG
GAGATGTGCTCGGCCGCCTTCTACCAGGAGCCTGATCCGTGCCGCCCGCCCGCCGGATG
GGACCACCAGAGTGCTCTAAAGTCTCCAGTGAATATTGAATTGCTGAGGATTTTGGGAAA
AGACAAATCAAAGTTCCCATGATCCCTTAGGTGCACCTTCCAGTTTGTGGATG
TGGATACACTACCAAGCTGGGGTGAATCATGCCAAGATGAATTAAATTCCTCTGATACTA
CAGCTGAAATATTTTCAAGGAGACACTGTTTCGATCACCTTTTCTTTATAATAAGGACGTCA
ATGGAAAAGTGGTTCTTTGGAAAGGAGATGTGGCATTACTGAACTGTACAGCCATTGTGA
ATACCAGCAATGAAAGTCTCACAGATAAGAATCCTGTGTGAGAAAGTATCTTCATGCTTG
CAGGGCCTGATTTGAAGGAAGATCTCCAGAACTTAAAGGGTGCCGAACAGGTGAAGCAA
AATTGACAAAAGGATTCAATCTAGCTGCCCGGTTTCATCATTACACAGTGGGACCTAAAT
ATAAAAGCCGCTATCGCACAGCAGCTGAGAGTTCCCTTTATAGCTGCTACAGAAACGTAC
TTCAACTAGCAAAAGAGCAGTCAATGTCTTCTGTTGGCTTCTGTGTGTCATCAATTCTGCAA
AACGTGGTTATCCTTTAGAGGATGCAACACACATAGCACTTCGCACTGTAAGAAGATTCC
TAGAGATTCATGGGGAAACATTGAAAAGTAGTATTTGCTGTCTCTGATCTTGAAGAGG

FIGURE 1 (CONT'D)

GTACTTACCAAAAGCTGCTACCTCTCTACTTCCCAAGGTCATTAAAAGAGGAGAATCGAT
 CATTGCCCTACCTACCTGCAGATATTGGAAATGCAGAAGGGGAGCCTGTGGTACCTGAAC
 GACAGATTAGAATAAGTGAGAAACCTGGTGCTCCAGAAGATAACCAAGAAGAGGAGGATG
 AAGGCTTGGGAGTTGATCTCTCTTTTCATTGGCTCTCATGCTTTTGCTCGAATGGAAGGAG
 ATATTGACAAGCAAAGAAAACCTGATCCTTCAGGGACAATTATCAGAGGCAGCTCTGCAGA
 AGCAGCATCAAAGAAATTATAATCGCTGGTTATGTCAAGCAAGATCTGAGGATCTGTCTG
 ATATTGCTTCTCTAAAAGCCTTATAACCAACAGGTGTTGATAACTGTGGTCGAACAGTGA
 TGGTGGTAGTTGGAAGAAACATTCTGTAAACATTAATAGATATGGACAAGGCTCTCTTAT
 ATTTTCATTTCATGTAATGGATCACATTGCTGTGAAGGAGTATGTATTAGTGTATTTTACA
 CCCTGACCAGCGAATACAATCACCTGGACTCCGACTTCCTGAAGAACTCTACGATGTTG
 TTGATGTCAAGTACAAGAGGAATTTGAAGGCTGTTTATTTTGTACATCCACATTTTCGTT
 CAAAGGTGTCAACATGGTTTTTTTACCACCTTTTCTGTCTCAGGACTGAAGGACAAAATCC
 ACCATGTGGACAGCCTCCACCAGCTGTTTTCTGCCATATCACCAGAACAGATTGACTTTC
 CTCCTTTTGTCTTGAATATGATGCCAGGGAAAACGGGCCTTACTATACATCATATCCCC
 CATCACCAGATTTGTGACCTGCCATCTTTTCAGTGCTTCTTGGTTCCAGGATGCCACTTC
 CTCCACGAATAGCTACCTGTTGAAGTGATATTTCATTGTTGCTGTACAGATCCAGAGAGCC
 TTTTGTCCCCACCTCTCTGGTATTTTTTTTATTGACTGTATATTTTCTGGCACATAAGCAA
 TCTAAAATGGTAGGCCATTCTGAACTGCACACATTTTAAATTTGTATATTTATATGAAA
 TGGAAATGTTCATTTTTAGATTGTTAATAGAAATTGGGGAGCAACTTTTGAGTATCTTTA
 GTTTCTGAAGGACACCGAATTCTCCATTAGATAAAACCAAGACTGTTTACATCATCT
 CTCTAACATTGCACGCTTCCTTTGTGTACTTAAGTGATTCTCGAAATATACAGAACCAAT
 GTATGCTAACAGATGCATTGTTTGTCTTCAGATCCATGGTGTTAATACCATGTATATTTT
 ATAAAGATAATTTGGCTGTGTTAAAAGAGAATTACCTGAGTCCAAGAATGTGGAAATGTA
 TCTGACAAAAACATCAAAATCATTAGCAAAACATAGGACTTAGAATGTTAATGTACAAG
 TTAAGACTAAAGTTTAAGGACTAAGGTTCTTGGATTATATGACTTGTTAAGATTGCCAC
 AGTTCCGATCTCAACAGTGTGGGGTGAAACAAGAAGACTGTATCTTCAGCCTTTTTCTTA
 TAATCATGGATGATTTGGTCTTATTCAAAGGACCGCACATATTAGTACTCTTAAGAGCA
 TCTTCCAAGACTCCAGCAGTGAGCATTTAGAGAGTGTGTTGTCTTCAGAGTCATGAATG
 ATTTTGTTTAGCTATCAGGTCTACTACCTCTAAGGACATTTATAGCAGCATCTCTTGAG
 TTGCCTGCATCAGTGTGGAGGAAGTGTGTACAGTGAACAAATCCAGGGAGCTGATAATT
 GGCAAAAGACCCTTTTACCACTCAGGCTCTATTTGTGCCTTAGCTTGGTTATGAGTAAA
 AATTAGAATTATGCTGCCTACCTCACAGAGGTATCATGAAGATAGCATTTAGAAAGGGCT
 TTGTTGTGGTGGGGTATCTTCAGTTAGTTTTTAAATGGGAATAAATATATATGAGGGAAT
 GCTACACAGCACTCCTCTTGTCTTGATACC

Gene 644. >ENST00000183319 cDNA sequence

ATGCACAGATTGCTTCACCTGTGGTATCAGACATCACAAATGGGGCTCACCAAGCAGTA
 CCTACGCTATGTTGCTAGTGCGGTCTTTGGCGTTATCGGCAGCCAAAAGGTAATATTGT
 CTTTGTGACACTTCGTGGTGAGAAAGGACGTTATGTGGCAGTACCAGCTTGTGAACACGT
 TTTTCATCTGGGACTTAAGGAAAGGAGAGAAGATTCTTATCCTTCAGGGGCTTAAACAAGA
 AGTTACTTGCTTATGCCCTCCCCAGATGGGCTACACTTAGCTGTTGGGTATGAGGATGG
 GTCGATCCGAATCTTCAGTCTCCTGAGTGGGGAAGGAAATGTGACCTTCAATGGTCACAA
 AGCAGCTATCACTACCTTGAAGTATGATCAGCTAGGAGGCAGACTGGCATCTGGGTCCAA
 GGACACAGATATTATTGTATGGGATGTGATCAATGAAAGTGGTCTGTACCGTCTAAAGGG
 GCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGAAAAGAACCTGCTAGTTACTAG
 TGGGAAAGATAACCATGGTGAAATGGTGGGACCTTGATACTCAGCACTGCTTTAAACAAT
 GGTGGCCACCGGACTGAGGTATGGGGGTTGGTTCTGTTGTGAGAAGAAAAGCGACTCAT
 CACTGGGGCCTCAGACAGTGAACCTGAGGGTATGGGACATAGCTTATCTGCAAGAGATTGA
 AGACCCGGAAGAACCAGACCCCAAGAAAATCAAAGGATCTTCTCCTGGAATACAAGATAC
 TCTTGAGGCAGAGGATGGTGCCTTTGAGACGGATGAAGCCCTGAGGATCGAATCCTTTC
 ATGCAGAAAAGCTGGTTCCATAATGCGGGAAGGAAGAGACAGAGTTGTAAACCTTGCACT
 CGACAAGACAGGCAGGATTCTTGCTTGCCATGGAACCTGACTCTGTGCTAGAATTGTTTTG
 TATCCTTTCCAAAAGGAAATTCAGAAGAAAATGGATAAGAAGATGAAGAAAGCTAGAAA
 GAAAGCAAAATTACATTCTAGCAAAGGAGAGGAGGAAGATCCTGAGGTTAATGTTGAAAT
 GAGTCTGCAAGATGAAATCCAGCGGGTGAATAATAAAAACCTTCTGCCAAAATCAAGTC

FIGURE 1 (CONT'D)

CTTTGACTTTGATTCACTTCACTCACCTCAACGAGAGTAAAGGCTGCTCTTCTGCTGCAGACAAC
CCTGGTGGAATTGTATTCACTGAATCCATCCTTGCCTACTCCTCAGCCTGTCAGGACAAG
CAGAATCACTATTGGGGGTCATCGCAGTGATGTGCGGACTTTGTCAATTCAGCTCAGACAA
TATTGCTGTTCTTTCACTGCAGCTGATTCCATTAAAAATATGGAACAGGTCTACACTGCA
GTGTATTGCGACAATGACCTGTGAATATGCACTTTGCTCAATCTTTGTACCTGGTGATAG
ACAGGTAGTCATAGGAACAAAGACAGGGAAAGCTGCAGCTTTATGACTTGGCTTCAGGGAA
TCTGCTGGAGACAATAGATGCACATGATGGAGCTTTGTGGTCCATGTCCCTCTCTCCAGA
TCAGCGTGGCTTTGTGACAGGTGGTGCAGATAAAATCTGTCAAATCTGCGGATTTTGAGTT
AGTGAAAGATGAAAATAGTACCCAAAAGAGACTTTCTGTGAAGCAAACCCGAACCTTTGCA
ACTAGATGAAGATGTTCTGTGTGTGCTAGTTACTCTCCCAATCAAAGCTATTGGCTGTGTCT
TTTGCTGGACTGTACTGTGAAAATTTTCTACGTTGATACTTTAAAGTTTTTTTTCTGTCACT
GTATGGACACAAACTGCCTGTTATATGCATGGACATCTCTCATGATGGAGCACTCATAGC
AACTGGCTCCGCTGATAGGAATGTGAAAATCTGGGGTTTTGGACTTTGGGGACTGCCACAA
GTCTCTCTTTGCACATGATGACAGTGTGATGTACCTACAGTTTGTACCCAAGTCTCACCT
CTTCTTCACTGCCGGAAGAGATCATAAGATTAAACAGTGGGATGCAGACAAATTTGAACA
CATAAGACTCTGGAGGGTCATCACCAGGAAATATGGTGTTTGGCTGTAAGCCCCAGTGG
AGACTATGTTGTATCATCGTCCCATGACAAATCTCTGAGACTTTGGGAGAGAACAAAGGA
GCCTCTTATTCTTGAGGAAGAAAGGGAGATGAAAAGAGAAGCAGAATATGAGGAGAGTGT
GGCCAAAGAAGACCAACCAGCAGTTCCAGGAGAGACTCAAGGTGACAGTTACTTTACTGG
AAAGAAAACCTATTGAAACAGTGAAAGCAGCTGAGAGGATTATGGAGGCTATTGAGTTGTA
CCGAGAAGAAAACGCAAAAATGAAGGAACACAAAGCCATTTGTAAAGCTGCAGGGAAAGA
GGTTCCACTTCCCAGCAACCCCATCCTAATGGCTTATGGCAGTATCTCACCTTCAGCTTA
TGTATTAGAGATTTTTTAAAGGGATCAAGTCGAGTGAGCTGGAAGAATCTCTACTTGTGCT
GCCTTTCTCTTATGTCCAGACATTCTTAAACTCTTTAACGAATTCATTACAGCTGGGCTC
TGATGTTGAACTTATATGCCGGTGCCTCTTCTTCTCCTTAGGATTCACTTTGGACAGAT
CACTAGCAATCAAATGCTTGTGCCAGTGATAGAAAAATTAAGGGAACAACTATTTCAA
AGTCAGCCAAGTCCGGGATGTTATCGGCTTCAATATGGCTGGTCTTGATTATCTCAAGAG
GGAATGCGAGGCAAAAAGTGAAAGTTATGTTTTTTTCTGCTGATGCTACTAGCCACTTGAAGA
GAAGAAGAGGAAGAGGAAAAAGAGGGAGAAGTTGATTCTAACGTTGACTTAGAACTGAAA
TGTGGTATCTTTTTTTTTTTTTCAACTTTTTCTTTAAAGGACTCCTAAACTAAGCACAGAA
GAGTTGGCGTCATCTTAAAAATACCAAATAACAGAAGATCGCATTCAGATGATATCAGG
ATGTGGTTTTCCAGCTTTGCCTGAGGGAATCCAACATGAGATTATGGGCTGGCTCCATTT
CTTGGACTTAAATGCATTATTAGTTTTAAAAATCTTTCTGTGCTCTCAAAGCTTGAGCCT
TGCAGCTCAAGCTTGTTGTTCCCTTTTATATTCTAGCAGGGAATAAAATAATTGTTTTAATT
AGGTATTTGTTTTCACTGGAGTTGAAATTAACATTTCAAAGTTTTTCGTATTTTTTTTTATG
GCAGATGATTTGTCAATTTATTTATATTAGGTTTTACTGCCTATTGAGACAACCAGGTGCA
TAATTGATTGCCCTTTGGCCATAAAAATGCAGTGTCATGGATCTTAGAGCTAAAAAGGAC
TGTAATAAATTACCCAGAACAGCGTCCTCAGACTTAACCTTCTGCAAGTTATGTCTGTATA
TAAGAAGATTCTAATTGCTAACTGTTTATACTTTTCTGAATAAAATAGTTGTTTTCTAATT
AAAAAGTAGCCAAGCTAAGATGCCTGGCTGGGCTTCTGAGGAATTAATACACTCGTGTGT
GT
ATATAGTTGACACTTGAAAAATGCAGGTGGTAGGGGCACTGACCCACCCCTACGCCCCGC
ACAGTCAAAAATCTGCATATAACTTTTGATTCCCAAAGTCTTAAGTACTAGTAGCCTGT
TATTGACTGGGAGCCTGACTGATGTATTATATATATTGTATACTGTATTCTTAAAGTAAG
CTAGAGAAAAAGAAATGTTACTTAGAAAAATCATAAGGAAGAGAAAAATATATTTACTGTGT
TTATCAATACT

Gene 645. >ENST00000309112 cDNA sequence

ATGGGGCTCACCAAGCAGTACCTACGCTATGTTGCTAGTGCGGTCCTTTGGCGTTATCGGC
AGCCAAAAAGGTAATATTGTCTTTGTGACACTTCGTGGTGAGAAAGGACGTTATGTGGCA
GTACCAGCTTGTGAACACGTTTTTCACTCTGGGACTTAAGGAAAGGAGAGAAGGGGGCTTAAA
CAAGAAGTTACTTGCTTATGCCCCCTCCCCAGATGGGCTACACTTAGCTGTTGGGTATGAG
GATGGGTCGATCCGAATCTTCAGTCTCCTGAGTGGGGAAAGGAAATGTGACCTTCAATGGT
CACAAAGCAGCTATCACTACCTTGAAGTATGATCAGCTAGGAGGCAGACTGGCATCTGGG
TCCAAGGACACAGATATTATTGTATGGGATGTGATCAATGAAAGTGGTCTGTACCGTCTA

FIGURE 1 (CONT'D)

AAGGGGCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGAAAAGAACCTGCTAGTT
 ACTAGTGGGAAAGATACCATGGTGAAATGGTGGGACCTTGATACTCAGCACTGCTTTAAA
 ACAATGGTTGGCCACCGGACTGAGGTATGGGGTTGGTTCTGTTGTGAGAAGAAAAGCGA
 CTCATCACTGGGGCCTCAGACAGTGAAGTGAAGGTATGGGACATAGCTTATCTGCAAGAG
 ATTGAAGACCCGGAAGAACCAGACCCCAAGAAAATCAAAGGATCTTCTCCTGGAATACAA
 GATACTCTTGAGGCAGAGGATGGTGCCTTTGAGACGGATGAAGCCCCTGAGGATGTAATT
 CATTTTCATTTCTTAAGTTTAATTGTGTTGAATAATGGGAAACGAATCCTTTTCATGCAGA
 AAAGCTGGTTCCATAATGCGGAAGGAAGAGACAGAGTTGTAAACCTTGCACTGACAAAG
 ACAGGCAGGATTCTTGCTTGCCATGGAAGTGAAGTCTGTGCTAGAATTGTTTTGTATCCTT
 TCCAAAAGGAAATTGAGAAGAAAATGGATAAGAAGATGAAGAAAGCTAGAAAGAAAGCA
 AAATTACATTCTAGCAAAGGAGAGGAGGAAGATCCTGAGGTTAATGTTGAAATGAGTCTG
 CAAGATGAAATCCAGCGGGTGACTAATATAAAAACTTCTGCCAAAATCAAGTCTTTGAC
 TTGATTCAATCACCTCACGGAGAGTTAAAGGCTGTCTTCTGCTGCAGAACAACTGGTG
 GAATTGTATTCACTGAATCCATCCTTGCCCTACTCCTCAGCCTGTGAGGACAAGCAGAATC
 ACTATTGGGGGTCAATGCACTGATGTGCGGACTTTGTCAATCAGCTCAGACAATATTGCT
 GTTCTTTTCAGCTGCAGCTGATTCCATTAAAATATGGAACAGGTCTACACTGCAGTGTATT
 CGCACAATGACCTGTGAATATGCACCTTTGCTCATTCTTTGTACCTGGTGATAGACAGGTA
 GTCATAGGAACAAAGACAGGGAAGCTGCAGCTTTATGACTTGGCTTCAGGGAATCTGCTG
 GAGACAATAGATGCACATGATGGAGCTTTGTGGTCCATGTCCCTCTCTCCAGATCAGCGT
 GGCTTTGTGACAGGTGGTGCAGATAAATCTGTCAAATCTGGGATTTTGAAGTTAGTGAAA
 GATGAAAATAGTACCCAAAAGAGACTTTCTGTGAAGCAAACCCGAAGTTTGAAGTAGAT
 GAAGATGTTCTGTGTGTGAGTTACTCTCCCAATCAAAGCTATTGGCTGTGTCTTTGCTG
 GACTGTACTGTGAAAATTTTCTACGTTGATACTTTAAAGGATGGAGCACTCATAGCAACT
 GGCTCCGCTGATAGGAATGTGAAAATCTGGGGTTTGGACTTTGGGGACTGCCACAAGTCT
 CTCTTTGCACATGATGACAGTGTGATGTACCTACAGTTTGTACCCAAGTCTCACCTCTTC
 TTCCTGCGCGAAAAGATCATAAGATTAAACAGTGGGATGCAGACAAATTTGAACACATA
 CAGACTCTGGAGGGTCAACAGGAAATATGGTGTTTGGCTGTAAGCCCCAGTGGAGAC
 TATGTTGTATCATCGTCCCATGACAAATCTCTGAGACTTTGGGAGAGAACAAAGGAGCCT
 CTTATTCTTGAGGAAGAAAGGGAGATGGAAAGAGAAGCAGAATATGAGGAGAGTGTGGCC
 AAAGAAGACCAACCAGCAGTTCCAGGAGAGACTCAAGGTGACAGTTACTTTACTGGAAG
 AAACTATTGAAACAGTGAAAGCAGCTGAGAGGATTATGGAGGCTATTGAGTTGTACCGA
 GAAGAACTGCAAAAATGAAGGAACACAAAGCCATTTGTAAAGCTGCAGGGAAAGAGGTT
 CCACTTCCCAGCAACCCCATCCTAATGGCTTATGGCAGTATCTCACCTTCAGCTTATGTA
 TTAGAGATTTTTAAAGGGATCAAGTCGAGTGAGCTGGAAGAATCTCTACTTGTGCTGCCT
 TTCTCTTATGTCCCAGACATTCTTAAACTCTTTAACGAATTCATTGAGCTGGGCTCTGAT
 GTTGAACCTTATATGCCGGTGCCTCTTCTTCTCCTTAGGATTCACTTTGGACAGATCACT
 AGCAATCAAATGCTTGTGCCAGTGATAGAAAAATTAAGGGAAACAACTATTTCAAAGTC
 AGCCAAGTCCGGGATGTTATCGGCTTCAATATGGCTGGTCTTGATTATCTCAAGAGGGAA
 TGCGAGGCAAAAAGTGAAGTTATGTTTTTGTGCTGATGCTACTAGCCACTTGGAAGAGAAG
 AAGAGGAAGAGGAAAAGAGGGAGAAGTTGATTCTAACGTTGACTTAGAACTGAAATGTG
 GTATCTTTTTTTTTTCAACTTTTTCTTTAAAGGACTCCTAAACTAAGCACAGAAGAGT
 TGGCGTCATCTTAAAAATACCAATAACAGAAGATCGCATTGCAGATGATATCAGGATGT
 GGTTTCCAGCTTTGCCTGAGGGAATTCACACATGAGATTATGGGCTGGCTCCATTTCTTG
 GACTTAAAATGCATTATTAGTTTAAAAATCTTTCTGTGCTCTCAAAGCTTGAGCCTTGCA
 GCTCAAGCTTGTTGTTCCCTTTATATTCTAGCAGGGAATAAATAATTGTTTTAATTAGGT
 ATTTGTTTTCAATTGGAGTTGAAATTAACATTTCAAAGTTTTTCGTATTTTTTATGGCAG
 ATGATTTGTCAATTTATTTATATTAGGTTTTACTGCCTATTGAGACAACCAGGTGCATAAT
 TGATTGCCCTTTGGCCATAAAAATGCAGTGTGATGGATCTTAGAGCTAAAAGGACTGTA
 AAAATTACCCAGAACAGCGTCTCAGACTTAACCTTCTGCAAGTTATGTCTGTATATAAG
 AAGATTCTAATTGCTAACTGTTTATACTTTCTGAATAAAATAGTTGTTTCTAATT

Gene 646. >ENST00000286203 cDNA sequence

AGAGCAGGAGAGCATCATGAAGGCTCAGCCCCAACATGAGTCTCTGGAGCAGACCACAAA
 CAATGAGATCAAAGATGATGCAGTCACAAAGGCTGATTCTCATGAAAAGAAACCCAAGAA
 GATGATGGTGGAAGCAGATTTAGAGGACATAAAGAAAACACAGCAGCGCAGTCTAATGGA

FIGURE 1 (CONT'D)

CTGGAGTTTTACTGAACATTTTAAACCGAAAGTACTGCTTCAGGTCCTTCAAGAAGCCCA
TAAGCAATATAGGTGTGTTGATTCTTACTACCACACCCAAGACAACTCTTTACTTTTAGT
CTTTCACAATCCAATGAATAGACAACGTTTGCATTGTGAATATTGGAACATTGCTCTCCA
CTCCAATGTTGGATTAGGAATTATTTGGAACCTGTTGCAAAATCTATTCAAGATTGGAT
TACAAAAGAAGAAGCTATATATCAGGAATCTAAAATGAATGAGAAAATCATCAGGACCAG
AGCTGAGCTGGAATTGAAATCTTCTGCTAATGCCAACTTACTTCTGCTAGCAAAATTTT
TTCCATTAAAGAATCTAAAAGTAACAAAGGAATCAGCAAAACAGAGATATCAGATCAAGA
AAAAGAAAAAGAGAAGGAAAAGATTCTTTTCATTTTAGAAGGCTCTCTCAAGGCATGGAA
AGAAGAGCAACATCGATTAGCAGAAGAGGAGCGCTTAAGGGAAGAAAAGAAAGCAGAGAA
GAAGGGTAAAGAAGCTGGTAAAAAGAAAGGCAAGGATAACGCAGAGAAAGAGGATAGTAG
GTCTTTGAAGAAAAATCACCTTACAAGGAGAAATCTAAAGAAGAACAAAGTCAAGATCCA
AGAAGTAACAGAAGAGTCCCCCACCAACCAGAACCTAAGATAACTTACCCGTTTCACGG
ATACAATATGGGAAATATACCCACTCAAATCTCAGGGTCAAATTACTACCTGTATCCTTC
TGATGGGGGGCAGATTGAAGTGAAAAGACAATGTTTGAAAAAGGCCAACTTTTATCAA
AGTGAGAGTGGTAAAGGACAACCACAATTTTATGATTCAATTAATGACCCTAAGGAAAT
TGTGAAAAAGGAAGAGAAAGGGGATTATTATTTAGAAGAGGAAGAAGAAGGAGATGAGGA
ACAAAGTCTTGAAACGGAAGTATCAGATGCAAAGAATAAAGCTTTTCAAGTATTTGGATC
TTTTTCTGCCACCTTAGAAAATGGAATCTGCCTCTCGATAAGTTACTATGGATCAAATGG
AATGGCACCAGAAGATAAGGATCCTGATTTAGAAACAATATTGAATATCCCTTCAGCACT
CACTCCAACAGTGGTTCTGTATTAGTGACCGTTCTCAAAGCAAAGCTAAAGGGAAAAT
AAAAGGCAAAGAAAAACCCAAAGAATCCCTTAAAGAAGAAGAACACCCAAAAGAAGAAGA
GAAAAAGGAAGAAGAAGTAGAACCAAGAACCTGTTTTACAAGAGACTTTGGATGTTCCAC
CTTCAGAGCCTAAATGTGTCTTGCCCCAGTGGGCTCCTGTTGACTTTTATTGGACAAGA
ATCTACAGGTCAATATGTTATAGATGAGGAACCCACCTGGGACATCATGGTCCGTGAGAG
CTACCCCCAGAGGGTGAAGCACTATGAGTTCTATAAAACGGTGATGCCACCCGAGAGCA
GGAGGCTTCAAGGGTTATCACCAGTCAAGGCACTGTTGTCAAATATATGTTGGATGGATC
CACACAGATTCTCTTTGCAGATGGTGCTGTGAGCAGGAGTCCCAATTCAAGTCTTATTTG
TCCTCCTTCTGAAATGCCAGCAACGCCTCACAGTGGAGATTTGATGGACTCTATTTCTCA
GCAGAAATCAGAAACGATACCATCTGAGATTACCAACACAAAGAAAGGAAAAAGTCACAA
AAGTCAGTCATCAATGGCCCATAGGGGTGAAATCCATGACCCTCCTCCAGAGGCAGTTCA
AACTGTAACTCCTGTGGAGGTTACATAGGCACCTGGTTTTACAACCAACCTGAAGGAAA
TCGGATCGGCACCAAAGGATTAGAAAGAATAGCAGACTTGACCCATTGTTATCCTTTCA
GGCCACAGATCCTGTCAATGGAACGGTTATGACAACTCGAGAAGACAAAGTTGTCTATAGT
TGAAAGGAAAGATGGTACTCGGATAGTGGATCATGCTGATGGTACCAGAATCACAACCTT
TTATCAAGTTTATGAAGATCAAATTATTCTGCCAGATGATCAAGAAACAACCGAGGGTCC
TCGGACTGTCAACAGGCAGGTGAAGTGTATGCGGGTAGAAAGCTCACGCTATGCCACTGT
TATCGCCAACTGTGAGGACAGTAGCTGCTGTGCCACCTTTGGAGATGGAACAACCTATTAT
TGCAAAGCCACAGGGAACATACAGGTGTTACCTCCAAACACAGGCTCTCTTTATATTGA
CAAGGATTGTTTCACTGTGTACTGCCATGAGTCAAGCAGTAATATATACTATCCTTTTCA
AAAGCGTGAGCAGCTGCGAGCTGGCAGGTACATCATGAGGCATACTTCAGAGGTTATCTG
TGAGGTTCTGGATCCTGAGGGGAAACACTTTTTCAGGTCATGGCTGATGGTAGCATATCAAC
TATATTACCTGAAAAAAATTTGGAAGATGATTTAAATGAGAAAACTGAGGGCTATGATAG
TCTGTCTCTATGCACCTTGAAAAGAATCATCAGCAAATCTATGGTGAACATGTCCCCAG
GTTTTTTGTTATGTATGCTGATGGATCAGGAATGGAACCTTCTTCGAGACAGTGACATAGA
AGAATATCTATCTTTGGCATATAAAGAATCAAATACTGTTGTTCTCCAAGAGCCAGTGCA
GGAACAGCCAGGCACCTTAACCATCACAGTCTTTCGCCCTTTCCATGAAGCATCACCATG
GCAAGTAAAAAGGAAGATACAATTGTCCCTCCTAATCTCCGGTCAAGGTCAAGGTGAGGAAAC
ATTTCCCTCAGTTGAGAAAAAACTCCAGGACCTCCGTTTGGTACTCAGATTTGGAAAGG
CCTTTGCATTGAGTCCAAACAGCTAGTGAGTGCCCCGGGTGCCATACTCAAGAGCCCCAG
TGTGCTACAGATGCGCCAATTCAATCAGCATGAGGTCTAAAGAATGAGGTGAAACTGAG
GCTGCAGGTTTCCCTTAAGGATTACATAAACTATATTCTAAAGAAAGAAGATGAGCTGCA
GGAAATGATGGTTAAAGATTCCAGAACTGAGGAGGAGAGAGGCAATGCTGCTGATCTCCT
CAAGCTGGTTATGTCTTTCCCTAAAATGGAGGAACTACAAAAAGTCATGTTACTGAAGT
TGCAGCTCACCTAACTGATTTATTCAAGCAGTCTTTGGCTACGCCTCCAAATGCCACC

FIGURE 1 (CONT'D)

AGACACATTTGGTAAAGATTTCTTTGAAAAGACATGGAGACACACAGCATCCTCAAAACG
CTGGAAAGAAAAGATAGACAAAACGAGGAAGGAAATTGAGACAACACAGAATTACCTAAT
GGATATTAAGAACCGCATAATACCACCCTTTTTTAAATCTGAATTGAACCAGTTATATCA
GTCTCAGTATAATCACCTGGACAGTCTTTCCAAAAAAGTGCCTTCTTTTACAAAGAAAAA
TGAAGATGCAAACGAAACAGCTGTTCAAGATACATCTGATCTTAATCTAGATTTCAAGCC
ACATAAGGTTTTCAGAACAGAAATCCTCAAGTGTGCCTAGTCTTCCAAAACAGAGATTTTC
TGCAGATAAGAAGGATTTCACTGCTCAGAACCAAAGTGAATTTTAAACAAAATCTCCTGA
AGAAGCAGAATCTTATGAGCCCGTGAAAATTCCAACCCAGTCTTGCTGCAGGATGTTGC
GGGACAAAACAAGAAAAGAAAAAGTGAAGTTGCCTCATTATTTGCTGAGTTCCAAGCCTAA
GTCTCAACCTCTTGCAAAGGTGCAAGATTCTGTTGGAGGAAAAGTGAACACATCCTCTGT
TGCATCTGCTGCCATTAATAATGCAAAGTCATCCCTTTTTGGGTTCCATCTTCTCCCATC
ATCAGTCAAGTTTGGAGTGCTTAAGGAAGGACATACCTATGCCACAGTTGTAAAGCTCAA
GAATGTTGGAGTGGACTTCTGCAGGTTTAAAGTAAAGCAGCCCCACCCAGCACAGGACT
GAAAGTGACTTACAAACCTGGACCTGTGGCAGCTGGTATGCAGACAGAACTGAATATAGA
GTTATTTGCCACAGCTGTTGGAGAGGATGGGGCCAAGGGATCAGCACACATCTCTCACAA
TATCGAGATTATGACAGAGCATGAGGTTCTGTTTCTACCTCCCTTAACAAGTATTTTACC
TGTTTTTAAACAAGCAGCAATTATGATAAACGACCAAAGACTTTCCCCAGGGAAAAGAAAA
TCCAATGGTCCAGAGAAGTTCTACAATTTATTCTCCACACTTGAGTCTTCATGTCTCG
TAAAGTTTCTCCACATTAG

Gene 647. >ENST00000331024 cDNA sequence

AAGGTGAAGCCTGGAGTCAATGGATTTGGCCATATTCTCCTGGTCACAAGGGCTGCTCTG
AACTCTGGTAAAGTGGATATTGTGGCCATCAATGACCCCTTCATTGACCTTAACTTCATG
CCCTACATGTTCCAGTATAATTCCACCCATGGCAAATTCCATGGCACTCCAAGGCTGAG
AACGGGAAGCTTGTCTCATCAATGGAAATTCATCACCATCTTCTAG

Gene 648. >ENST00000256653 cDNA sequence

AGACCCGTGCGGTAGCAACAGCGGCGGCGGCGGCGGCTGGCCGGACTCAGGTGTTTC
GGACGCTATTGCCCTTCGCGCCAGCCGTGAGTGGGCAGCAGCGGGACTCAGCCGGGCGC
CAGGTTCTGCCAGGCAGCGCCGGGAAGCGCGGCGGCGGAGAACTCCTTCCTGCTACTT
CGCCAGCGCCGCTGCTTCGGCTTCCAGCGAAGTGGGAGACCTTCCTCCCTGTTTGCAG
ACGTCCGTGGGAGACCTTATTTTTTCCACCGCTAAGGTTAAGAGATTCTGGAATAGAAG
CGTCGAAGGAGATCAAGTGAACCTTCTACAACCTCCTCGGATGTGCGCAGTCTCCCTTTCG
GGGCGGAAGACTACGTTTGGAGCATCTCACTGAGGTGCAGGAATGGAAGAACCACCTTGC
AGCTTTTCTGCAGTGTGGCTTGCCTGATCTACCCCTAGGAATGAAGAGGAGGCTTGTAAT
AATCCGATGAAGTACAGATGTTGAAGAGGATATCGCAGGACCTAAACTTGTGATCGTTTG
GGGAGGTCACACACGTTTCTGAGTGGGAATGGATGGGCGTGAATGACGTGCCCTCTTAA
AAAGCACACAGTCTTTTAAAGAGGAGCAAAATTGAGTTTTTCCATTTTGGCCAAGATTTT
GAAGACAGTTCATGTATTCTACATTTGACATAAGATGAGAACTTTCTAAAGTATTCTCT
CCAAGAGCGTAAACGATGACTACCCAGCCCTGCTGCCCCCTCTCTGGACGTAGGATACCA
CCTCTGAACCTGGGGCCGCTTCTTCCACATCACAGGGCTACCTTGAGACTTTCTGAG
AAGTTTATTCTTCTCCTTATTCTTAGTGCTTCATCACTCTGTGTTTTGGGGCATTCTTT
TTCCTTCCAGACTCTTCAAAACACAAACGCTTTGATTTGGGTTTAGAAGATGTGTTAATT
CCACATGTAGATGCCGGTAAAGGGGCTAAAAACCCCGGAGTCTTCTGATCCATGGACCC
GATGAACATAGACACAGGGAAGAGGAAGAACGTCTGAGAAATAAAATTGAGCTGATCAT
GAGAAGGCCTTGGAAGAAGCAAAAGAAAAATTAAAGAAAGTCAAGAGAGGAAATTGAGCA
GAAATTCAGACAGAGAAAAATAAGGTAGTCCAAGAAATGAAGATAAAAGAGAAACAAGCCA
CTGCCACAGTCCCTATTCCCAACCTTGTAGGAATACGTGGTGGAGACCCAGAAGATAAT
GACATAAGAGAGAAAAGGGAAAAAATTAAAGAGATGATGAAACATGCTTGGGATAACTAT
AGGACATATGGGTGGGGACATAATGAACTCAGACCTATTGCAAGGAAAGGACACTCCCT
AACATATTTGGAAGTTCACAAATGGGTGCTACCATAGTAGATGCTTTGGATACCTTTTAT
ATCATGGGACTTCATGATGAATTCCTAGATGGGCAAAGATGGATTGAAGACAACCTTGAT
TTCAGTGTGAATTCAGAGGTGTCTGTGTTTGAAGTCAACATTCGATTTATTGGAGGCCTA
CTTGACGATATTACCTATCAGGAGAGGAGATATTCAAGATTAAAGCAGTGCAATTGGCT
GAGAACTCCTTCCTGCCTTTAAACACACCTACTGGGATTCTTGGGCAATGGTGAATTTG
AAAAGTGGAGTAGGGCGAAACTGGGGCTGGGCATCTGCAGGTAGCAGCATTCTGGCTGAA

FIGURE 1 (CONT'D)

TTTGGTACACTACATATGGAGTTCATCCACCTCAGCTACTTGACAGGGGACCTGACTTAC
 TACAAAAAGGTTATGCACATTTCGAAACTACTTCAGAAAATGGATCGTCCAAATGGTCTT
 TATCCAAATTATTTGAACCCAGAACAGGGCGCTGGGGTCAGTATCATACTGTCTGGT
 GGCCTGGGAGACAGTTTTTATGAATACTTACTGAAAGCATGGTTGATGTCAGATAAAACA
 GACCATGAGGCAAGAAAGATGTATGATGATGCTATTGAGGCTATAGAAAAACATCTTATT
 AAGAAGTCTCGTGGAGGTCTTACCTTTATTGGAGAATGGAAGAATGGGCACCTGGAAAAA
 AAGATGGGGCATTGGCCTGCTTTGCTGGGGGAATGTTTGCACTAGGAGCAGATGGTTCC
 AGAGCAGATAAAGCTGGTCATTATTTAGAGCTAGGGGCAGAAATTGCACGTAATTGTCTAT
 GAGTCATATGACAGAACTGCATTAAAGCTAGGTCTGAATCATTCAAGTTTGATGGTGCA
 GTGGAGGCTGTGGCTGTCCGGCAGGCTGAAAAGTATTATATCCTCCGTCCAGAAGTAATT
 GAAACCTATTGGTACCTATGGCGATTCACTCACGATCCAAGATACAGGCAGTGGGGCTGG
 GAAGCAGCACTGGCCATTGAAAAGTATTGCCGAGTTAATGGTGGGTTTTCTGGAGTCAAA
 GATGTATATTCTCTACTCTACACATGATGATGTACAGCAGAGCTTTTTCTTGCTGAA
 ACATTAAATATTTGTATCTGCTGTTCTCCGGTGATGACCTTTTACCTTTAGACCACTGG
 GTGTTTAATACAGAGGCTCACCTCTGCCTGTGTTACATTTAGCCAACACCACACTTTCA
 GGTAATCCTGCTGTTTCGATGAAAGCAGTTCAGAAGGACCATTCTCACCTGTGTTTTGTT
 TACATGGACCACTACAGAAATTAGTTTGAAGGGCGGCTTTTGAAAACCTGGACCTCTAT
 GTCAACATGACAGGGTGAAACTATTCCCCCTAAGACTGTTCAACTTGATAGATACATCAAC
 TTTGAAATTATTCATTTTATACCTGACCAAAACATGTTCTGATATGTGTAGGACAGAGA
 CCTGGATGTGCTTTGATCGTTAATGAGGTGGTCACATGAGAAATGATACCTGTTACTACT
 GTATTGTTTTTAGAGTCTGAAGTCTGGAGGCTAGACTTCCTGAAAGCAAGTCAAGAATA
 TAGAGCACCTTGCAAGAGTTCAAGATGGCCTTTGGAACCAATTATGTATTTGTTTCTCC
 TACAGTGGAGCAGCATTCAAATCAAATATTTACATATTGCTTATCACTTTTTCTCCATTT
 TAATAATGGAATGAACTAAAATAAACAAGAACAAAAGAATAGTATAATTATATCAGTAAC
 AAGAAGACTCAAAAAAGAAACAGGAGTACCTATCCCTATCTGAATTTTCAAGTCCCAT
 TGGATGACCAGACTGGCAACCATTTCAAATCCAGTCTATTTTATTGAAATTTCTTGTT
 AAGTTTAATTTTCTCTGGGGGCATGATCTCACAAGAATACTCAAGTCTTTTTCTTCTTA
 TGGAAATCATCGAACTGCTATTTATCATAATCACCACCTTATGAGCCTGGGTTTGGGATTT
 TGTGCATGTAGTTTCACTCTAGTGTGGTAGCATGACAGAAAGTGGGGAAAATGCCGAGT
 TTGTTGCCTTGAAACCTAAGAGCAATCCTTGTTTGTGCTACATTATTTTCCAGACC
 AACACATCTACCAAGTAAATTTTATTCACTTTAATTTTATAATAAAGTTAGTAGAGTCAC
 TCAACTTACAACCTTTATTTATGTGGCTTGGCAAAAATCACTATAAGGCAGCTCTAAATTT
 GCCTTGATAAGCTAAATAAATACTTTTATAAATTACTAAAGCAGAACAAACAGTGAAAC
 TTTCTAAAATATTCTATCTGGAATAGGGACAGGGGATCTTTTATTTATAATCTCATCAGA
 TGAGTGAGTTGTTTACAGATATTTTATGTTTTTTTAAATTTTCTCCAAGAATATTTATAGA
 ATTCCAAAGAATCAGAATAGTTTCAAATAATTTTCAAGTATAAAGAGTGTGTAATTA
 ATCATATTACACTAAAATTGGGATACATCTAAGGAACCTTATCTTACTATCAGTAGGTTT
 TGCATTGATATTTCTTTTTAAATAAACTACTAGTTCTTTATATTTTGACAAAAGAACTT
 AAATTTTATCAGGAAGTGAAGATAAATATCTAGTGCTTATAAATTTTCTGTCTTAAAT
 TTATGTGACAGTGCAAGATACTTTTGCTCTTTTCAATTAATATAGGCATCTTCCATTGAC
 ATTAATAAACTTAGAAACAGTATAATTAGTATAACATTTACTCTGAATTTGAAGATTTT
 CTGAAACAAAGTTTGTACAAGAAGCCACCTTGGAATTCTGAAGGCTTATTTTCTTGTTT
 GATAAGCTTTTCTTTTAACTTAGGTTTTAAGTTGGGGAAAGACTTAATTAACATAATATA
 GTATTTTCTAAGGTTGATCATCTTATACCACGAATCGTTAATTTTGACAGTTCTACTGAT
 CCGTAAATGATAACCACTGCAAATTTTTTTCAGTATAAAATTTTTCACTGCAAAAAAATTT
 CAGTAGAAAATAAGGATGCAGGGCCAGTTACAATAGTCCTTAAGAGAGTTAAATTATAGC
 ACATGTTTTGACATTGTAATATCTTTTACTACTTGAACATTTAAATTTCTAAATGAGAAA
 GGTATATATATTACTGTAAGTGTAGAAGGGAAAAGGGAAAGTATTTGGTTCTAAAAAATG
 TTAGCCTTCTCGTAAAAGTAGCACAAGCCCACTTATGAATCACTGAGAAAAGTGAAAA
 ACTTGAGTTGGCAAAGATGCAGAGCAGCAGTGCAGATGGCAATGAACTCTCTGAATTCTC
 TTTTACCTTATTTAGAAGAATGCAGAGTAAAGGGACCTTCTTGTTCTGCAGGAACCTCT
 CAAGGGATGAGGAGACAGAACCCTACTTCCAAGTGCTCTATTTGTATTACCCAGATGAC
 TGAAGCTTAAGAGAAGGCAGGGAAGTATACAAGCAGAGCCAGTTCTGGTACAAACAAAGA
 ATTTGACAGGGACAATGGAAGGGTCTTCTTACCACCTCCTTACCTTCTATGTGATGGAAA

FIGURE 1 (CONT'D)

GACTAGAGCTTATAAAAGTACTTCCATTTTTTTATTCTCCTGAATACCAAAGGCAATTAA
 AGTCAGCTACAAATGACTTGCCAGTGTATGTTTTATTTTGTATAGATTTTAAATTA
 TTTCTTCAAGATCAATTCTTATCCCATATAATGCTTAGCTTCCAAGAATATTCTTTACT
 TTCTTCTGTCTTTTACAGCTCTTTCGATTTTGTAGACCTTAATACTCAGGTAAATATTC
 ATTGCATTTATAAGATCTTCTGCAAAAAGCCCAGAAATGGTCCTTTTCAGGTGCCTCTTC
 AAAGAGCTGACACCTTACCTTGTGCCTTTGGCACAATGTGCAGAATAGATACATCAGTT
 GGTGCATAATCGAAAAAATAGGAATTTTGAACACTGTTCTTCTTCTACATTTATTTCT
 CTTCATTTTAGAATCACACTTTTTATGTTAAACCAGATTATTATTATTATTATTATTCAA
 CCAGTATTAAGTTGTTAAACCAAGGGAATGGGGCCCTAACCAAAAAGAAGTCTCAACTC
 AGAAAAATAAGTCCCAGTCAGGTGGTCTTACTTTCTTGTGGGTGCACATTTTGTATC
 TCTCTAACATCAGCGTATTCTGACTTTAAGCAGGTGTTTATATGTAAAATAAAACCTGG
 GTATCGAAGGGAAATGCATTCTTTTTATGGAGTATTGACCCTGATCCTCTATGATGTCAT
 ATAGAGCAACTCAGGGCTATACTTGCTAGATTTTAACCAAGCAGTTTGAAATATTAATCA
 TCATCCTCTCATCTTCTCCACTCTCCATTGCCAAAGTCTTGTCAAACTCCAAATTTGT
 TGATAAAAGATTGTGTTTGCATTCTCATTTATAATGCAGTTTCTCCTTAAGCCTGGAGT
 TTTTTGAATGAGTGCATGAGTAAATGAGAGAATGTGTGAACGAACATTTATGAAGTATCT
 AACATGTGCCAAGCATTGTGCCTGGCACTTTCAATCATTAGAATGTTTTATGTGATTCCA
 CAGCATTTTCTGTATGAGAGTAGCTCACAACATTTTAAATGTTTCCAATATGAATCGTGT
 TACAAAATTCTTAATTTTATATTTTATATAAAATTAAGAGGAAAAAGAAAGGTTTATAA
 TATATTTTAAACAATGTGTTACTGTATAATACAACTATAATTGTAGTTAATAACTAAAA
 CCTCTTGAAAATGTCAAAGAAATACTTGATTTCTGATGCAACTTTGACTAAAATATTTAC
 TTT

Gene 649. >ENST00000334368 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAAACGCAGAGCGCCTCTCCTCCT
 CCAAAGGAACGCAGTTCCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
 GAGCTGAGTGAAGAAGGCTTCAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
 ACCAAAGGCAAAGAAGTTGAAAACCTTTGAAAAAATTTAGAAGAATGTATAACTAGAATA
 ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
 CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
 ATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
 AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
 ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGAAAACACTCTGCAGGAT
 ATTATCCAGGAGAACTTCCCCAATCTAGCAAGGCAGGCCAACGTTTCAATTTCAGGAAATA
 CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
 TTCACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTGCGGTT
 ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCCTACAAGCC
 AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
 TCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
 CAAATGCTGAGAGATTTTGTCAACCACAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
 CTAAACATGGAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAAATGTAA

Gene 650. >ENST00000207157 cDNA sequence

TCTGAGCAGAGCACTGGTTTCAGATTCTGAGGTCTCACTGAGCGGACTTCCTGCTCCTTC
 AGTACTCACACTGACCTGGCCTCTGGTGTCTGCAGGCCCTGTGCCTGCTGCCATGTCTTCC
 ATGGAGGAGATTCAAGTGGAGCTGCAATGTGTGACCTCTGGAAGCGGTTCCATGATATT
 GGAACCTGAAATGATCATACCAAAGCAGGCAGGAGGATGTTTCTGCCATGAGAGTGAAA
 ATCACTGGCCTAGATCCACATCAGCAGTACTACATAGCAATGGACATTGTGCCTGTGGAC
 AATAAAAGATACAGATATGTGTATCATAGCTCCAAGTGGATGGTGGCTGGCAATGCTGAT
 TCCCCCTGTGCCCCCAAGAGTTTATATACACCCTGATTCTCTAGCTTCTGGAGACACCTGG
 ATGAGACAGGTGGTCAGTTTTGACAACTCAAGCTTACCAACAATGAGTTGGATGATCAA
 GGACATATCATTCTGCACTCTATGCACAAATACCAGCCTCGAGTTTCATGTGATTGCAAA
 GACTTCAGCAGTGACCTTTCAACCACTAAGCCTGTTCTGTTGGGGATGGGGTGAAAACG
 TTCAACTTTCTGAGACTGTGTTTACCACAGTTACGGCCTATCAGAATCAGCAGATTACC
 AGATTAAAAATTGACCGAAACCTTTTGCTAAAGGATTGAGAGATTCTGGGAGAAACAGA
 ACTGGACTTGAAGCCATCATGGAGACATATGCATTCTGGAGACCTCCTGTGCGCACTC

FIGURE 1 (CONT'D)

ACCTTCGAAGACTTCACCACCATGCAGAAGCAGCAAGGAGGCAGCACAGGCACTTCCCCA
 ACCACCTCCAGCACTGGGACACCATCCCCCTTCGGCTTCTTCTCATCTTTTATCTCCATCC
 TGTTCTCCTCCAACCTTTTCATCTGGCCCCCAACACTTTCAATGTGGGCTGCCGAGAAAGC
 CAGCTGTGTAATCTAAACCTCTCTGATTATCCACCATGTGCCCCAAGCAACATGGCTGCC
 TTGCAGAGCTACCCAGGGCTGAGTGACAGTGGCTACAACAGGCTTCAGAGTGGCACCCT
 TCAGCCACTCAGCCCTCTGAAACCTTCATGCCTCAGAGGACTCCATCCCTGATCTCAGGA
 ATACCAACTCCTCCCTCGTTGCCTGGCAACAGCAAGATGGAAGCCTACGGTGGCCAGCTG
 GGGTCCTTTCCCACTTCCAGTTTCAGTATGTCTATGCAGGCAGGCAATGCTGCCTCCAGC
 TCCTCATCACCACACATGTTTCGGGGGCGAGCCACATGCAGCAGAGCTCCTACAATGCCTTC
 TCCCTTCACAACCTTACAACCTGTATGGATACAATTTCCCCACTTCCCCTAGGCTAGCT
 GCAAGCCCGGAAAACTGAGCGCCTCTCAAAGCACTTTACTCTGTTCTTCTCCTTCCAAC
 GGGGCCTTTGGAGAGAGGCAGTACCTGCCGTGAGGATGGAGCACAGCATGCACATGATT
 AGCCCTTCACCCAATAACCAACAGGCAACCAACACTTGTGATGGCCGGCAGTATGGGGCA
 GTTCAGGCTCCTCCTCCAGATGTCCGTGCACATGGTTTAAAGGCCAGTCCAAACACCA
 CGGAGCATTGGAATCAAGGCCCCAGAGTCTCCGTGGTCAGATCCTCCTCTTTGGGAGT
 CCAGTGTCTTTGAAAAACAGGAACCGTGTCTTTTTTTTTTTTTTTTTTTTTCTGGCCGAAGAC
 ATATACCCAAGAACAAGAGATACCTTTAAGCCAGTGAAGGATACTTGCGATAGAATCATC
 CGCAACTCAGTGGCCATTCTTCTGCCTTCCAGACCTTAGTTTTATAAAGCATTGTCTGT
 TCCAGAGTGGCCTTTGAAGAGACTGAATAATCACTTCGTCATAATGTTAAGGGAGATGCT
 AGTGTGTGGCAGCCATGAAAAGTTACACATACACACCCACATACAGACAGACCTACCTAT
 ACATACGTGCACACACACATACATATTACATACACAATTACATACATGCAATCATACATG
 CACACTGACTCTGAACTGGGTGAACTCTGTGGAGGGAGGCCAGAAATGGGTGCTTTACC
 AAGAATTTGTCTGTGTACAACCTCTAGATGGAGTGGGCCAGCAGTAGCTGCCAGTCTTTCT
 CCCCTGCAGCTTCTCTGCTTCTGGAATGAACCATGTATCCTGGAGACCTCCCAATGGA
 TGAGAGTGGAAAGACATCAGTACAACCTGGACTTGGCTTCCGGAAGAAAGATTGCTTTTGAA
 CTTTGGCTCTCTTCACTTGTATGCTATCATTGATATTCCCAGTGGTGCCCGTGGAAAGAG
 GGAGAAAGAGAAGCTGAACAGGAGAAAGACAAACAGAAAGAATAGAGAACAGGAACGAGG
 TGGAGAGCAAGACTGCAGAGAAAGTGTGAGCAATGATGAGAATTTTAATTACCAAGGA
 GACGTGTTTTTGGTTTTGTCCCCCAACCCCGCCCGCCCACTACAGGTTATGGAAAGAA
 TCATGGCATTACTGAGGAGTAAACCTCTCTGGCACACTGAGCATGGTCAGGGCATTGGTC
 AGAGGGACAGAGCAAGGAATGCATCCTGAGCCACAGCTTTGACCACTGTGATCCAGAAG
 AGAGGTGCACTACGTGGGAAGTGTGATTCCACAGCATGCAGCCTGGTAGGGGAAGGAAA
 ATAAAAGGGTGTGAAGAAGGAATAGTTTTATAATCTCGGAAGATGATACCAAGAGCAGAG
 GCAACAAATAGAGGCCTGGCCTCCAGGTGCCGGATCCAGACACCTGACCTAGAATGCCTG
 CCCGCTATCCCTGTGGCAGGAAATATCCCCTCATGTCCAGGGAATTGCAGATGGGTCTT
 CTATACCCCTTCTACCTGCCCTTAGATCTCCATTTTTATCAAATAGTACATTGCATTTTGA
 AGTTTTGGGTTTTGTCTTTCATCTTTCCCTTTCCCTTCAAATCTTTTAATGGTAAGAAAG
 CAAGTGAAGCTTGGTGCAAGCTAAAATTTTTAAATGGTGTGGAAATGCAAATAATACCAA
 GTAAAATAATACAGATATTATTAAAGTTTCTGGTTTTGAGGTGTTGTAGATAAATGTATT
 TATGTGCCTAGTGGGGAATCCAATATTATGAATATGAAAAAGGGGGCAATAAAAGGGTAT
 GTAAAATATGTATGAAGAAAAGGTGTACAAAATTTGCCCTTATGCACGGAACTCTGTTT
 CTAAGTGCCAAGCACAGAAAGCCGCTAAATAAAATCTTTGCAATTGT

Gene 651. >ENST00000325945 cDNA sequence

GGTGTGTTTCTTAACACCTCCGGCAGTGAGCCAGGCTTTGAGTGGCTGCGTCTAAACACT
 TCTTTCCCTGAGGACTGGAAGACATTAGAATAAGCTCCAGACAATTCAAACATTGAGATT
 CCTGGGAACTACCAGATAGTAGCATCAGTTTACCAAGAAATGAAGCTGGTGAGGCAGTGA
 AAATCCAGGGCCTAGAAAGCTGGGAATGCCATGACGTGGGCACATTGAAAGACAAGAGGC
 AGGCATGATCAGCCTTGAACCTTTAGGAAGATCCCAGGAAGCTGATGGAAGACAAGATGTG
 GAGTGAATGTGAAGGTCCAGAAATGTCTTGGTGTGTTTGACAGACTTTTCAGGCCCATGC
 GCGAGAGCAGCTGTCTAAGTCAACTCGGGATTTTTATTGAAGGTGGAGCAGATGACAGCAT
 CACGCGGGATGACAACATTGCAGCATTTAAAAGAATTTCGCCTCCGTCCGCGGTACCTGAG
 AGATGTGTCTGAGGTGGACACCAGAACCAATCCAAGGGGAGGAGATCAGTGCCCCCTAT
 TTGTATCGCACCCACAGGGTTTCACTGCCTTGTCTGGCCTGATGGGGAAATGAGCACAGC
 AAGAGCTGCCAAGCGGCTGGTATCTGCTACATCACCAGCACATTTGCCAGCTGTAGCCT

FIGURE 1 (CONT'D)

TGAAGACATTGTCAATTGCAGCTCCCGAAGGCCTCCGATGGTTCCAACCTCTATGTGCATCC
AGACCTGCAGCTGAACAAACAGTTGATCCAGAGGGTAGAATCCCTAGGTTTCAAAGCTTT
GGTAATAACTTTGGATACACCTGTATGTGGCAACAGGCGACATGACATTGAAACAGTT
GAGGAGGAACCTTAACACTAACAGATCTTCAATCACCTAAAAAGGGAAATGCAATACCTTA
TTTCCAGATGACTCCTATCAGCACTTCTCTCTGCTGGAATGATCTCTCCTGGTTTCAGAG
CATAACTCGATTGCCCATCATCCTGAAAGGGATTTTGACAAAAGAGGATGCAGAGTTAGC
TGTGAAGCACAAATGTCCAGGGTATCATTGTTTCCAACCATGGTGGGAGGCAGCTTGATGA
GGTTCTTGCTTCAATTGATGCTTTGACAGAAGTGGTGGCTGCTGTAAAGGGGAAAATTGA
AGTCTACCTGGATGGCGGGGTCCGAACCTGGCAATGATGTGCTGAAGGCTCTGGCCCTTGG
AGCTAAGTGCATTTTTCTTGGGAGACCAATCCTATGGGGCCTTGCTGCAAGGGTGAACA
TGGTGTAAAGGAAGTTTTGAACATTTTAAACAAATGAGTTCCACACTTCCATGGCCCTTAC
AGGCTGCCGGTCCGTGCTGAGATCAATCGAACTTGGTCCAGTTTTCCAGGCTGTAA

Gene 652. >ENST00000333224 cDNA sequence

ATGGAGGTTGGCAAGAACAAGCGCCTTATGAAAGGCGGCAAAAAGGGAGCCAAGAAGAAA
GTGGTCGATCCATTTTGAAGAAGGATTGGTATGATGTGAAAGCACTTGCTATGTTCAAT
ATAAGAAATACTGGAAAGATGCTAGTCACCAGGACCCAAGGAATCAAATTGCATCTGAT
GGCTTTGAGGGTTGTGTGCTTGAAGTGAGTCTTACTGATTTGCAGAATGATGAAGTTGCA
TTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAAAAAGTGCCTAACTTCCATGGCATG
GATCTTACCCATGACAAAATGTGTTCCATGATCAAAAATGGCAGACAATGATTCTTCAT
CTGTTCTGTGTTGGTTTTACTAAAAAATGCAACAATCAGGTACGGAAGACCTCTTATGCT
CAGCACCAACAGGTCTCCAAATCTGGAAGAAGATGATGGAATCATGACCTGA

Gene 653. >ENST00000256585 cDNA sequence

AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGG
GCCCTTAGAGTCTTGGTTGCCAAACAGATTTGCAGATCAAGGAGAACCAGGAGTTTCAA
AGAAGCGCTAGTAAGGTCTCTGAGATCCTTGCACTAGCTACATCCTCAGGGTAGGAGGAA
GATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCTGGCCAAAACAGGAGT
CCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATGCCGAGCTCGAGTGTGAGTC
TTACGGAAACGGAGCCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGC
AGAGTACATAAGTGGCTATCAGAGAAGCCAGCCGATATGGATTGGCCTGCACGACCCACA
GAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTACAGATCCTGGTCTGG
CAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCTGTGCAAGTACCGACCATAGAG
CAAGAATCAAGATTCTGCTAACTCCTGCACAGCCCCGTCTCTTCTTTCTGCTAGCCTG
GCTAAATCTGCTCATTATTTTCAAGGGGAAACCTAGCAAACTAAGAGTGATAAGGGCCCT
ACTACACTGGCTTTTTTAGGCTTAGAGACAGAACTTTAGCATTGGCCAGTAGTGGCTT
CTAGCTCTAAATGTTTGGCCCGCCATCCCTTTCCACAGTATCCTTCTTCCCTCCTCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAAACAGCTGGGT
CTTTGGCCATAAGAAGTAAAGATTTGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCT
AGACCCCTTCAGCTTCTACACCCCTTCTGCCCTCTCTCCATTGCCTGCACCCCAACCCAGC
CACTCAACTCCTGCTTGTTTTTCTTTGGCCATGGGAAGGTTTACCAGTAGAATCCTTGC
TAGGTTGATGTGGGCCATACATTCTTTAATAAACCATTTGTGTAC

Gene 654. >ENST00000324032 cDNA sequence

ATAAGACTTTTATGGATGGATTGTTTTTCTCAAATAATATTATCGCTTTGTGACTAAAGT
AAAGATTATTAATTCCTGAGGCAAGAAGATATAAAAGCTCCAGAAACGTTGACTGGGACC
ACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTGGTTGCCAAACAGAATGCCCA
TATCCGTCTTACCTGTGAGGAAGCTTGCCCTTGGGCGCCCTCTGCTGGCCCTCCTGAAGCT
AACAGGGGCGAGTGCTCGGTGGTTTACAAATTGCCTCCATGCAGACTATGAAACTGTTCA
GCCTGCTATAGTTAGATCTCTGGCACTGGCCAGGAGGTCTTGCAAGTTTGCAGATCAAG
GAGAACCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTTGCACTAGCTAC
ATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCT
GCCTGGCCAAAACAGGAGTCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGAT
GGTTTTACCACAAGTCCAATTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATG
CCGAGCTCGAGTGTGAGTCTTACGGAACCGAGCCACCTGGCATCTATCCTGAGTTTAA

FIGURE 1 (CONT'D)

AGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCAGCCGATATGGA
TTGGCCTGCACGACCCACAGAAGCCACTCAACTCCTGCTTGTTTTCTTTGGCCA

Gene 655. >ENST00000263167 cDNA sequence

GAGGAGGAGGAGGAGATGACTGGGGAGCGGGAGCTGGAGAATACTGCCAGTTACTCTAG
CGCGCCAGGCCGAACCGCAGCTTCTTGGCTTAGGTACTTCTACTCACAGCGGCCGATTCC
GAGGCCAACTCCAGCAATGGCTTTTGCAAATCTGCGGAAAGTGCTCATCAGTGACAGCCT
GGACCCTTGCTGCCGGAAGATCTTGCAAGATGGAGGGCTGCAGGTGGTGGAAAAGCAGAA
CCTTAGCAAAGAGGAGCTGATAGCGGAGCTGCAGGACTGTGAAGGCCTTATTGTTGCTC
TGCCACCAAGGTGACCGCTGATGTCAACGCAGCTGAGAACTCCAGGTGGTGGGCAG
GGCTGGCAGAGGTGTGGACAATGTGGATCTGGAGGCCGCAACAAGGAAGGGCATCTTGGT
TATGAACACCCCCAATGGGAACAGCCTCAGTGCCGCAGAACTCACTTGTGGAATGATCAT
GTGCCTGGCCAGGCAGATTCCCCAGGCGACGGCTTCGATGAAGGACGGCAAATGGGAGCG
GAAGAAGTTTCATGGGAACAGAGCTGAATGGAAAGACCCTGGGAATTCTTGGCCTGGGCAG
GATTGGGAGAGAGGTAGCTACCCGGATGCAGTCCTTTGGGATGAAGACTATAGGGTATGA
CCCCATCATTTCCCAGAGGTCTCGGCCTCCTTTGGTGTTCAGCAGCTGCCCTGGAGGA
GATCTGGCCTCTCTGTGATTTTCATCACTGTGCACACTCCTCTCCTGCCCTCCACGACAGG
CTTGCTGAATGACAACACCTTTGCCAGTGCAAGAAGGGGGTGCCTGTGGTGAAGTGTGC
CCGTGGAGGGATCGTGGACGAAGGCGCCCTGCTCCGGGCCCTGCAGTCTGGCCAGTGTGC
CGGGGCTGCACTGGACGTGTTTACGGAAGAGCCGCCACGGGACCGGGCCTTGGTGGACCA
TGAGAATGTCATCAGCTGTCCCCACCTGGGTGCCAGCACCAAGGAGGCTCAGAGCCGCTG
TGGGGAGGAAATTGCTGTTTCAGTTTCGTGGACATGGTGAAGGGGAAATCTCTACGGGGGT
TGTGAATGCCCAGGCCCTTACCAGTGCCTTCTCTCCACACACCAAGCCTTGGATTGGTCT
GGCAGAAGCTCTGGGGACACTGATGCGAGCCTGGGCTGGGTCCCCCAAAGGGACCATCCA
GGTGATAACACAGGGAAACATCCCTGAAGAATGCTGGGAACTGCCTAAGCCCCGCAGTCAT
TGTGGCCTCCTGAAAGAGGCTTCCAAGCAGGCGGATGTGAACCTTGGTGAACGCTAAGCT
GCTGGTGAAGAGGCTGGCCTCAATGTCAACACCTCCCACAGCCCTGCTGCACCAGGGGA
GCAAGGCTTCGGGGAATGCCTCCTGGCCGTGGCCCTGGCAGGCGCCCTTACCAGGCTGT
GGGCTTGGTCCAAGGCACTACGCCTGTACTGCAGGGGCTCAATGGAGCTGTCTTCAGGCC
AGAAGTGCCTCTCCGCAGGGACCTGCCCCCTGCTCCTATTCCGGACTCAGACCTCTGACCC
TGCAATGCTGCCTACCATGATTGGCCTCCTGGCAGAGGCAGGCGTGCAGGCTGCTGTCTTA
CCAGACTTCACTGGTGTGAGATGGGGAGACCTGGCACGTGATGGGCATCTCCTCCTTGCT
GCCCAGCCTGGAAGCGTGGGAAGCAGCATGTGACTGAAGCCTTCCAGTTCCACTTCTAACC
TTGGAGCTCACTGGTCCCTGCCTCTGGGGCTTTTCTGAAGAAACCCACCCACTGTGATCA
ATAGGGAGAGAAAATCCACATTCTTGGGCTGAACGCGGGCCTCTGACACTGCTTACACTG
CACTCTGACCCTGTAGTACAGCAATAACCGTCTAATAAAGAGCCTACCCCC

Gene 656. >ENST00000256633 cDNA sequence

GGTTTCTGCTGGGTTTCTGAACTGCTGGGTTTCTGCTTGCTCCTCTGGAGATGCAGCGTC
TGTTGACTCCAGTGAAGCGCATTCTGCAACTGACAAGAGCGGTGCAGGAAACCTCCCTCA
CACCTGCTCGCCTGCTCCAGTAGCCACCAAAGGTTTTCTACAGCCTCTGCTGTCCCCC
TGGCCAAAACAGATACTTGGCCAAAGGACGTGGGCATCCTGGCCCTGGAGGTCTACTTCC
CAGCCCAATATGTGGACCAAACCTGACCTGGAGAAGTATAACAATGTGGAAGCAGGAAAGT
ATACAGTGGGCTTGGGCCAGACCCGTATGGGCTTCTGCTCAGTCCAAGAGGACATCAACT
CCCTGTGCCTGACGGTGGTGAACGGCTGATGGAGCGCATACAGCTCCCATGGGACTCTG
TGGGCAGGCTGGAAGTAGGCACTGAGACCATATTGACAAGTCCAAAGCTGTCAAAACAG
TGCTCATGGAACCTTCCAGGATTCAAGCAATACTGATATTGAGGGCATAGATACCACCA
ATGCCTGCTACGGTGGTACTGCCTCCCTCTTCAATGCTGCCAACTGGATGGAGTCCAGTT
CCTGGGATGGTCTTATGCCATGGTGGTCTGTGGAGACATTGCCGTCTATCCAGTGGTA
ATGCTCGTCCCACAGGTGGGGCCGGAGCTGTGGCTATGCTGATTGGGCCCAAGGCCCTC
TGGCCCTGGAGCGAGGGCTGAGGGGAACCCATATGGAGAATGTGTATGACTTCTACAAAC
CAAATTTGGCCTCGGAGTACCCAATAGTGGATGGGAAGCTTTCATCCAGTGCTACTTGC
GGGCCTTGGATCGATGTTACACATCATACCGTAAAAAATCCAGAATCAGTGGGAAGCAAG
CTGGCAGCGATCGACCTTACCCCTTGACGATTTACAGTACATGATCTTTCATACACCCT
TTTGCAAGATGGTCCAGAAGTCTCTGGCTCGCCTGATGTTCAATGACTTCTGTGAGCCA
GCAGTGACACACAAACCAGCTTATATAAGGGGCTGGAGGCTTTCGGGGGGCTAAAGCTGG

FIGURE 1 (CONT'D)

AAGACACCTACACCAACAAGGACCTGGATAAAGCACTTCTAAAGGCCTCTCAGGACATGT
TCGACAAGAAAACCAAGGCTTCCCTTTACCTCTCCACTCACAATGGGAACATGTACACCT
CATCCCTGTACGGGTGCCTGGCCTCGCTTCTGTCCCACCACTCTGCCCAAGAACTGGCTG
GCTCCAGGATTGGTGCCTTCTCTTATGGCTCTGGTTTAGCAGCAAGTTTCTTTTCATTTTC
GAGTATCCAGGATGCTGCTCCAGGCTCTCCCCTGGACAAGTTGGTGTCCAGCACATCAG
ACCTGCCAAAACGCCTAGCCTCCCCGAAAGTGTGTGTCTCCTGAGGAGTTACAGAAAATAA
TGAACCAAAGAGAGCAATTCTACCATAAGGTGAATTTCTCCCCACCTGGTGACACAAACA
GCCTTTTCCAGGTACTTGGTACCTGGAGCGAGTGGACGAGCAGCATCGCCGAAAGTATG
CCCGGCGTCCCGTCTAAAGGTGTTCTGCAGATCCATGGAAAGCTTCTGGGAAACGTATG
CTAGCAGAGCTTCTCCCCGTGAATCATATTTTAAAGATCCCACTCTTAGCTGGTAAATGA
ATTTGAATCGACATAGTAGCCCCATAAGCATCAGCCCTGTAGAGTGAGGAGCCATCTCTA
GCGGGCCCTTCATTCTCTCCATGCTGCAATCACTGTCTGGGCTTATGGTGTCTATGGAC
TAGGGGTCTTTGTGAAAGAGCAAGATGGAGCAATGGAGAGAAGACCTCTTCTGAATCA
CTGGACTCCAGAAATGTGCATGCAGATCAGCTGTTGCCTTCAAGATCCAGATAAACTTTTC
CTGTCTATGTGTTAGAACTTTATTATTATTAATATTGTTAACTTCTGTGCTGTTCTGTG
AATCTCCAAATTTTGTACCTTGTCTAAGCTAATATATAGCAATTAAGAGAGAGAAAGA
G

Gene 657. >ENST00000235521 cDNA sequence

CCCTTCTCAAGATGGCGCTGCACTCAATGCGGAAAGCGCGTGAGCGCTGGAGCTTCATCC
GGGCACTTCATAAGGGATCCGCAGCTGCTCCCGCTCTCCAGAAAGACAGCAAGAAGCGAG
TATTTTCCGGCATTCAACCTACAGGAATCTCCACCTGGGCAATTACCTGGGAGCCATTG
AGAGCTGGGTGAGGTTACAGGATGAATATGACTCTGTATTATACAGCATTGTTGACCTCC
ACTCCATTACTGTCCCCCAAGACCCAGCTGTCTTCCGGCAGAGCATCCTGGACATGACTG
CTGTTCTTCTTGCCTGTGGCATAAACC CGGAAAAAAGCATCCTTTTCCAACAATCTCAGG
TGTCTGAACACACACAATTAAGTTGGATCCTTTCTGCATGGTCAGACTACCTCGATTAC
AACATTTACATCAGTGGAAGGCAAAGACTACCAAGCAGAAGCACGATGGCACGGTGGGCC
TGCTCACATACCCAGTACTCCAGGCAGCCGACATTCTGTTGTACAAGTCCACACACGTTTC
CTGTTGGGGAGGATCAAGTCCAGCACATGGAAGTCTAGTTTCAAGGATCTAGCACAAGGTTTCA
ACAAGAAGTATGGGGAGTTCTTTCCAGTGCCCCGAGTCCATTCTCACATCCATGAAGAAGG
TAAAATCCCTACGTGATCCTTCTGCCAAAATGTGAAATCAGACCCTGACAAACTGGCCA
CCGTCCGAATAACAGACAGCCCAGAGGAGATAGTGCAGAAATCCGCAAGGCTGTGACAG
ACTTCACCTCGGAGGTCACTATGACCCGGCTGGCCGCGCTGGCGTGTCCAACATAGTGG
CGGTGCATGCCGCGGTGACGGGGCTCTCCGTGGAGGAAGTGGTGCGCCGAGCGCGGGCA
TGAACACTGCTCGCTACAAGCTGGCCGTGGCAGATGCTGTGATTGAGAAGTTTGCCCCAA
TTAAGCGTGAAATTGAAAACTGAAGCTGGACAAGGACCATTTAGAGAAGGTTTTACAAA
TTGGATCAGCAAAAGCCAAAGAATTAGCATACACTGTGTGCCAGGAGGTGAAGAAATTGG
TGGGTTTTCTATAGGAAGTTTCAACGAATCACAGCAAGGCTTTTGTGCCTTGCACTCCAT
GCATTCTGATAACGGCAGCTTTTCTAAAAAGAAAAAGTTATAGTTTTGGGACATTTAATT
TGGTATAGCTGATTATTGGCTTTATTTGATGAATATTGCTTTGTAGCTTTGAAATACGAC
AGTGTTCCAAATCCCATCAACAAAATGCTGTGAACAACAACAACAAAAATAAATCAAGA
AGGCATAGCTGTCTGAATCCCCAATTATTGAGGCACACTCCTTGGCCTGCAGAAATGTGA
TTGAAGTAAGGAGTAATTTGGGAAATGGAGTATCATTTGTGCTTCTCTCTGGAGTACTTA
CTGTAACAGATGCACACGTTATCTACTTCAACCCTTTTATAAAGCAATATATAGAGGTCT
TAGATGTATAATCCTTGAGATGCCATTTGATCAGATGCCAATTTGTATTAGAGCTCATA
AAAACAAGTCCATTCTTATAGTTTGTGTGCTGAGACGGTGCCTGATTTAATATATTT
AAGCTGCTTAACTTGTTTTCCAAGAGATAACACCAACTGTTCCAGCAATAATTTGTTTTT
TAATTAGAGATATGGGATATGATCTTCTAAGGAGGTGCAATTATTTTGACCTGATTTAT
TTATTGTACAAGAGCCCAAGTCCCTGAATTATATTCTTAATAAGTGCTTTCTTGCAATTCA
TTTCAGTTTAGTCTCACCAACCCCTATGAATTAGGAGAATTATTGTCAATTTTACACATG
AGGAAAGTGAGGCTGAGAGAATCCAATTAGCTTGTACGATATCACTCCATAAGAGAAGCA
AATCTGAGAGTAAACCCCTTACCCCTTATTCTTAAGAATAGTGCTTGTTTATTTCAGTACA
AAAAAATGCTGAAAGGCAGCGTTTTTTAGACTCTAAACATTCTGATTTTGAAGGTGGGT
GTTGGAACGACTGATGATGTTTTTTATATCATCAATTCAGCCAATGGATGCGAACTTAAA
ATCTGGATTACAGAACCGTGGTCACATTTCCCATCAAAATCCCCAAGGCGGTCCCAA

FIGURE 1 (CONT'D)

GTTCTCTCCTCTACGCTCATTGCAGAAATACTTTGAAATAGGTTCTGCCAGTCTACAATA
GCAGTGAAGACTGACAAATCAGATATTCCCAATGACTGACAGCTTCTCATCTTGCCTCTA
CCTCAGTTAAGTAATGTCAACCTGAAACCTAGCTTTTCTGCACTTCCATTTCTGACACCT
GAAAATGAAAATGATAATCCTAACTTATACACCAAGACCTGTTAGCAAGATCGATTTTGT
AACAGAAATTGCTTATAAGTTTTTTATCAGTAAGGACCATGATCACCATTTGTACATACA
TAACTAGGTTGTTGAGCAAAGCATTTTTGTCTCATGTTTCTTAAGGAAGTAGAGTAGTCCT
TGTGTGAGAACACATGTTAATCCACAAAACGCCCCATCCCAGATTCCAAATTAACACATC
GTTTTTAGGATTCTTGGAGCTAGCCTGGATCATGGGTAAAGGAAACATTTTGCCTTTTGT
ATCTTATACTGGAATGGGATGTCTGTAAGTCCTAGAACCTCTTTGAGCATATTTCTTACA
AGCCTCTGTTTTTTCCCTTTTAAAGGAACTTTGAAAGGATTGTGAATACTGGAAAATGA
CAAACTAAAGGTAGATCTATC

Gene 658. >ENST00000331009 cDNA sequence

GGGCCAGTTAAATGGATCATCATCTCTAACCCCTCTGCTGACAGCCCCATGTTTGTGATG
GGTATGAACCATGAGAAATATAACAACAGCCTCAAGATCATCAACAGTGTTCCTTGTACC
ACCAACTGCTTAGCATCTCTGGCCAAGATCATCCATGACAACTCCGATTTAGTGGAAGGA
CTCATGACCACAGTAAATGCTATGATTGCCACCCAGAAGACTGTGGACGGCCCCCTCTGTG
AAACTGTGGCATGACAGCTGCAGGGCTCAAAGGAACATCATCCTTGCATCTACTGGCACT
CTCAAGGCTGTGGGCAAGTATATCAATGAGCTGCATGGGAAGATCACTAGCATGGCATTTC
CAGGTCCCCACCACGAACATGTTGGTCATGAACCTGACCTGCCCTCAGGAAAAGCATGCC
AAATATGATAACATCAAGCAGGTGGTGAAGGCATCAGAAGGCCCCCATAAGGGCATCCTG
TGCAACACTGAGAACCAGTTGCCTCCTCCAGCTTAACCATTGACACCCACTCTTCCACC
TTCAATCCTGGGACTGGCATTGCCCTC

Gene 659. >ENST00000335580 cDNA sequence

CTCCAGAACAAGACCAAGCTGACAGTGCTGGAAGGAGACATTCTGGATGAGCCATTCTTG
AAGAGAGCCTGCCAGGACATGTCTGGTCATCATCCACACTGCCTCTATCATATATGTCATC
GGTGTCACTCACAGAGTCCATCATGAATGTCAATGTGAAAGGTACAATGACACGCCTCAC
CAAAGCTATGATAACCTTAGTTACACCTTGAGCAAAGAGTTTCGGCCTCTGCCTTGATTCC
AGTTGGAGCCTGCCTTTATCCCTGACGTACTGGATTGGCTTCCTGCTGGAAATAGTGAGC
TTCCTGCCGAGGCCAGTTTACACCTGTGACCGCCCTTCAACCACCACAGAGTGACATTG
TCAAATAGCGTGTTACCTTCTCTTACAAGAAGGCTCAGCAAGATCTGGCATATAAGTCA
CTTTACAGCTGGGAGGAAGCCAAGCAGAAAACCATGGAGTGGGTTGGTTCCCTTGTGGAC
TGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGA

Gene 660. >ENST00000271263 cDNA sequence

CCCTACCCGTGCCCCGAGTGCGGCGAGGCCTTCAGCCTCAGCTCGCATCTGTTGAGCCAC
CGGCGCGCGCACGCGGCGGCCAGCGGCGCGGGGGCGGCGGCGCTGCGGCCCTTCGCCTGC
GGGGAGTGCGGCAAGGGCTTCGTGCGCCGTTTCGCACCTGGCCAACACCAGCGCATCCAC
ACGGGCGGAGAAGCCGCACGGCTGTGGCGAGTGCGGCAAGCGCTTCAGCTGGCGCTCGGAC
TTGGTGAAGCACCAGCGCGTGCACACGGGCGAGAAGCCCTACATGTGCTCCGAGTGCGGC
GAGACCTTCAGCGTCAGCTCGCACCTCTTCACGCACAAGCGCACGCACTCGGGTGAGCGG
CCCTACGTGTGCCGCGAGTGCGGGAAGGGCTTCGGGCGTAACTCGCACCTGGTGAACCAC
CTGCGCGTGCACACGGGCGAGAAGCCCTTCCGCTGTGGCCAGTGCGAGAAGCGCTTCAGC
GACTTCTCCACGCTCACGCAGCACCAGCGCACGCACACGGGCGAGAAGCCCTACACGTGC
ATCGAGTGCGGCAAGAGCTTTATCCAGAGCTCCACCTGATCCGCCACCGCCGCATCCAC
ACGGGCAACAAGCCGCACAAGTGTGCGGGCTGCGGCAAAGGCTTCGCTATAAAACGCAC
CTCGCGCAGCACCAGAAGCTGCACCTGTGTTAG

Gene 661. >ENST00000335229 cDNA sequence

CTGACGGTGCTGGAAGGAGACATTCTGGATGAGTCATGCCTGAAGAGAGCCTGCCAGGAC
ATGTCGGTCATCATCCACACCACCTCCATCATAGACATCATCGGTGTCACTCACAGAGAG
TCCATCATGAACATCAATGTGAAA

Gene 662. >ENST00000330630 cDNA sequence

TCTGCTATGTATTCTAGAAAGGCCACGTACAAGAGGAAGTACTCAGCCACTAAATCCAAG
GTTGAAAAGAAAAGAAGCTTCTTGCAACTGTTACAAAACAGTTAGTGGTGACAAGAAT
GGTGGTATCTGGGTGATTAACTTCACAAAATGCCTAGATATTATCCTACTGAAGACGTG
CCTCAAAAGCTGTTGAGCCATGGCAAAATACCTTCAGTTGGCACGTGAGAAAAC TGCA

FIGURE 1 (CONT'D)

GCCAGCATCACCCCCAGGACCATTTCTGATCATCCTCATTGGACACCACAGGAGCAAGAGG
GTGGTTTTCTGAAGCAGCTGGCTAGCGGCTTGGTTCTTGTGACTGGACCTCTGGTCCTC
AATCGAGTTCTCTACAAAGAACACACCAGAAATTTGTATTACCTCAACCAGAATTGAT
ATCAGCAATGTAAAAACCCCAAAACATCTTACTGATGCTTACTTCACAAAGAAGAAGCTG
CAGAAGCCCAGACATCAGGAAGGTGAGATCCTTGACACAGAAAAAGAGAAATACGAGATT
ACAGAGCAGTGCAAGATTGATCAGAAAGCTGCGGACTCACAAATTTTGCAAAATCAAAG
Gene 663. >ENST00000334351 cDNA sequence
ATGGGTGGTAGAGAGAGGTATAACATTCCAGCCCCCTCAATCTAGAAATGTTAGTAAGAAC
CAACAACAGCTTAACAGACAGAAGACCAAGGAACAGAATTCAGATGAAGATTGTTTAT
AAGAAAAAAGAAAGAGGACATGGTTATAACTCATCAGCAGGTGCCTGGCAGGCCATGAAA
AATGGGGGGAAGAACAATAATTTTCCAAATAATCAAAGTTGGAATTCTAGCTTATCAGGT
CCCAGCTTACTTTTTTAAATCTCAAGCTAAACAGAACTATGCTGGTGCCAAATTTAGTGAG
CCGCCATCACCAAGTGTCTTCCCAAACCAAGCCACTGGGTCCCTGTTTCTTTAAT
CCTTCAGATAAGGAAATAATGACATTTCAACTTAAACCTTACTTAAAGTACAGGTATAA
Gene 664. >ENST00000328500 cDNA sequence
GCTCACTCGGTGCGCTGCCTAGGGGCTGTAGAGGTGCGCGCGCTCCTGCTGGGGCCTGC
CCACGCCAAGGACCTGCCTCTGTGCGCTCCTCTTCTATTGCCAGTTTTCCCAGCCAGAA
CATCCCCTGAAGATGGCAGAGGAGAGCAGCTGTACCAGGGATTGCATGTCCTTCAGCGTG
CTCAACTGGGATCAGGTTAGCCGGCTGCATGAGGTCCTCACTGAAGTTGTACCTATCCAC
GGACGAGGCAACTTTTCAACCTTGAGATAACTCTGAAGGACATCGTCCAGACCGTCCGC
AGTCGGCTGGAGGAGGCAGGCATCAAAGTGCACGACGTCCGGCTGAATGGCTCCGCAGCT
GGCCACGTTTTTGGTCAAAGACAATGGCTTGGGCTGCAAAGACCTGGACCTAATCTTCCAT
GTGGCTCTTCCAACAGAGGCAGAATTTTCAAGCTGAGGTTAGAGATGTGGTTCTGTGTTCCCTT
CTGAATCTCTGCCAGAGGGTGTGAACAAGCTCAAATCAGTCCAGTCACTCTGAAGGAG
GCATATGTGCAGAAGCTAGTGAAGGTTTGCACGGACACTGACCGCTGGAGCCTGATCTCC
CTCTCCAACAAGAACGGGAAGAACGTGGAGCTGAAGTTTGTGACTCCATTCCGCGTCAAG
TTTGAGTTTCAAGTGTGGACTCTTTCCAAATCATCCTGGATTCTTTGCTTTTCTTCTATGAC
TGTTCCAATAATCCCATCTCTGAGCACTTCCACCCACCGTGATTGGGGAGAGCATGTAC
GGGACTTTGAGGAAGCTTTTGACCATCTGCAGAACAGACTGATCGCCACCAAGAACCCA
GAAGAAATCAGAGGCGGGGACTTCTCAAGTACAGCAACCTTCTTGTGCGGGACTTCAGG
CCCACAGACCAGGAAGAAATCAAACTCTAGAGCGCTACATGTGCTCCAGGTTCTTCATC
GACTTCCCGGACATCCTTGAACAGCAGAGGAAGTTGGAGACTTACCTTCAAACCACTTC
GCTGAAGAAGAGAGAAGCAAGTACGACTACCTCATGATCCTTCGAGGGTGGTGAACGAG
AGCACCGTGTGTCTCATGGGGCATGAACGCAGGCAGACTCTGAACCTCATCTCCCTCCTG
GCCTTGCGTGTGCTGGCGGAACAAACATCATCCCCAGTGCCACCAACGTACCTGTTAC
TACCAGCCGGCCCCCTTACGTCAAGTATGGCAACTTCAGCAACTACTACGTTGCCCATCCT
CCAGTCACCTACAGCCAGCCTTACCCTACCTGGCTGCCCTGTAACCTAACCTTGAGACCTG
AGGGTTTCCACAGTGGGAACCCCAATAGGGCTAGGGCTCTCAGGTAGGGGAGCCTCCTTC
TAGATGTAGGCATTTGGCTTTTAAAGGGGAACCTCAGCTCTGATTCTGCTTTTTTTTTTTT
TTTTCTTTGTGTACCCATTGGAATGGGTCTACAGTGTATCATGAGCCAACCTCAAAGG
ACCCGTATTACAGTGCCACGTTGGAAAACGCTACAGGAAGCATGACCTATCCACATCTTT
CCAAGATAGACACTAACATGTATGTCCAAAACATTAGCACGTGGGGGTTGAGCTCTGTG
CAGTAATCGAGATTGGGAGAATTTGGGCAGCGCGTGAGAAGTGCTAAGCTACTTGTTTTC
TCACTTGAGCCCGGGTAGGCTGTGTTGGCCCTCACTTGGGATTCTCAGCAGTTACATGAA
AGTTGTGCTGATAATCTCTTCTCTTGTACCAATTTTAGTCAGGCAGAAAATGGTAAACAT
GAGGGTGCTCTTGTGACTTAATTTTTGTTTCAAGGGACTAAATTGCTTATGTTTATTCCCT
GTCAGCGGAGTGGAGAATGTCAATCATCAATAAACCAAGCCAATAGCTGGAGAATTGAG
ATCTGGTTGAAAGTGGTTTATGGTTTACATGCTGTACTATCCTGAGGAATTGCGAGATAT
TGCTGAGGGGAAAAAAAATGACCTTTTCTTGAATGTAACTTGAACCAAAATAAAATG
TGGAACATAATGTTTAAATTAGAATTGTGGTGGTGGTAGTGAAGGGGATAATTGTAAATA
GGAAACATGAATGTTTCAATTTTTTCTTTAAAGAATTCTTATTAAATGGCTCCCTGCCTTT
TTTTTCTTTTTCTCATCAGCTCTTTCATGGCTGAATTTTGTTTTATTCTTCTTAAGAC
TGAGGATTGTGCTGAGTCCAGAGTCATTGTGGTAACTGACATGAGGGTCTTCCCATGTTT
TAACTGGAAACCACTTTGGTCACATTCCAAGTATGACACAGCTGTTCTTCTGGAGTACT

FIGURE 1 (CONT'D)

TTAGCTATTTTTGTTTTGTTCTTTTCGTTTTTTTTTTTCCAAAAATAGTGACTTCCT
TCTCCAGGTGTGTTTGACAGCAACTCAATTCAGGAATTCGGTAGAACTGAGTGACCTGT
GGAAGTCTTTAGAATCTAACCTGCTGTCTTCGTGCTCTGTGTGAAGGGGAAGCTGGGGG
GTTAGCATGAAGTCTGGCCTTGTGTGCATTGGAGCTTCCAAGGCACTTTGAAATCATTCC
AGTATATTTGGGAAGAATTGAGTGAATGAGAATGCTCTTCCTTATTCTGGTAGATTTGAC
TTGTTTATAAATTCTGCACTTTAGAAGAAAAACAGTGTTAATCTGTAGTTGAAAGAAAGCT
TAGTAGATGAGAGAGTTCTAGGCTACTGTGGCTTTTTCCAGTAGATTTAGATGAGATTAT
GTGTTTTGAAATGTTTTGTGGGATCCCTTAGAAAGCATCACTTCAGGGCAGAGACACTCA
ATATTGCCAGCCAGCTTGGGTTCTAAAGTGATTTAATCAAATTCATGCTCCTGATCTTTT
TTTTCCCCCTTCCTTTGGCTATGAAAACCCAAAGCCCGGAGTGATTGTTTTCTCCTTGCT
TTAAGCAGTGAAGTTATCCTAATGCAAAAGAGCTTAGTAGAAAATGAGTGGTTTACCTTT
TTTTCTAAAAGTATATTTTCAAGTTTATTCTGGAATGTGATGTCTTGGTCTCTTAAAAG
CAGATCAGCCATGACTGAAACTCAAGGCTTAGCTGGTATCTATGTTGTGCTACATTAGGT
GACTAGAAGCCACTTCTTAGTGTAATCAGCTCCTGTTTCCCTGTGAGCCTTAGTTATATT
TTAATTCAAGTGGCTTTGAGTCAAGGCCGTTCTAATTGAGGGGACCCAGTGTGCTTCAGT
GTTAAGAGTGGGGCAATGAAGAGTGAACCCCAATGAAGAGTGATCCCAACTTTGGAAACT
ATCTGGTCATTCATGACCTTAAAAGCTGCCATGGTGGTCAAATGGCATGTGTTGCACA
AAAATGACCGATGTGTTTAAACCAAAGCTTTGAAATGTGATGAAGCCACCAACATAAGCAC
TTGCCTAACAGAAATCAGTATTTCTTCTACTTAGAAGGCTTGGGGCCAGGGTAATGAGG
CACCAGATGAAGATAAGATCTGCATCAAGGAATTAAATTTCCAGTTTGTCTTGG

Gene 665. >ENST00000313132 cDNA sequence

CTTCCTCCATCATACGCTCACCTTGTCAAAGCTCCCAGAGAGGGTTTCAACAAAGGATTT
GGTTTTAAGTTGGTGAAAGAGGTAAAAGCAAAGTCATGTGGTGGCGTGGAATTCCTAAAG
TCTGGTTTCATCTAATACAGACACTGGTAAAGTTACTGGGATCTTGGAGTCCAAATATAAA
TGGTGCAAGTATGATTTGACTTTCACAGAAAAATGGAACACTGATGACACTCTGGGGACA
GAAATCACAATTGAAGACCAAATTTGTCAAGGTTTGAAATGATATTAGATACTAGCTTC
TCACCAAACATAGGAAAGAAAAGTGGCAAATCAAGTCCTCTTACAAGAAGCAGCGTGTA
AAGCTTGGCCCGTGATGTTAACTTTGATTTTGTCTGGACTTGCAATTCATGGCTCACTTGCT
GGGTACCAGATGAGCTTTAACAGCACCAAGTCAAAGCAGACAAAGAATAACTTTGCAGTG
GGCTACAGGACTGGGGACTTCCAGCTGCACACTAATGTCAATGATGGGGCAGAATTTGGA
GGATCAGTTTATCAGAAAGTTTGTGAAGATCTTGATGCTTTAGTAAACCTTGCTTGACA
TCAGGTACCAGCTGCACTCGTTTTGGCCTTGCAGCTAAATTTAGTTGAAACCCATTGCT
TCCATTTCTACAAAAGTCAACAACTGGTTGACTGGGGTCAGCTACACTCCACCCCTGAGG
CCTGGTGTGAAGCTCACCTGTCTGCTCTGGTAGATGGGAAGAGCATGGATGCTGGAGGC
CACACACTTGGCCCCCTGGAGTTGCAGGCTTAATCCAGATGAAAGAAACCTCTGGGAATGG
ATAGCAGAAGATTTGGCCTTGATGTATTTCCATTGTGACGAGCAGGCTTTTTCCCCCTGA

Gene 666. >OTTHUMT00007007936 cDNA sequence

ATATCAAAAATGCAAACTTGGGGAGGGCATAAAAATCACACACAAGGCTGCCACTTCACA
CTTCGAGGGTTGCACAACGGCCGGGCAAAGGCGCTCCTCACTTTCAGATGGGGCGGCAA

Gene 667. >OTTHUMT00007007937 cDNA sequence

TTGAGTATGCTCAGGCTTCAGAAGAGGCTTGCCTCTAGTGTCTCTGCTGTGGCAAGAAG
AATATCTGGTTAGACCCCAATGAGACCAATGAAATCACCAATGCCAACTCCCGTCAGCAG
ATCCGGAAGCTGATCAAAGATGGGCTGATCATCCGCAAGCCTGTGATGGTCCATTCCCCC
GCTTGATGCCGGAATAACACCTTGGCCTGCCGGAAGGGCAGGCATATGGGCATAGGTAAG
CGGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTACGTGGATGAGGAGAATGAGG
ATTCTGCACCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATTGATCGCCGCATGTAT
CACAGCCTGTACCTGAAGGTGAAGAGGAATGTGTTAAAAACAAGCAGATTCTCATGGAA
CACATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGATCAGGCTGAG
GCCCGCAGATCTAAGACCAAGGAAGCACACAAGAGCTATGAAGAGCACCTCCAGGCCAAG
AAGGAGGAGATCATCAAGACTTTGTCCAAGGAGGAAGAGACCAAGAAA

Gene 668. >OTTHUMT00007007938 cDNA sequence

AAGAAGAGCGTCCCCAGGAGAAAACAAGCTTGACCACTATGCTGTACAGAGTTTCTCTG
ACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGTTCACTGTGGAT
GTTAAAGCCACCAAGCACCAGATCAAAACAGGCTGTGAAGAAGCTCTATGACACTGATGTG

FIGURE 1 (CONT'D)

GCCAAAGTCCATGCCCTGATTAGGCCTGATGCAGGAAGAAGGCATAAGCTCCACTGGCTC
CTGATTACAATGCTTTGGATATTGCCAACAAAATTGGGATC

Gene 669. >OTTHUMT00007007939 cDNA sequence

ATGAAGAAACAAGGAGTAAGCCCAAAGCCGCTGCAATCTTCCCGCCCCAGCCCGTCTAAG
CGGCCCTGCGGGGCCTCCCCCGCCGGGAGCGGGAGGTGGAAAAGTCGGCCCTAGGCGGC
GGGAAACTGCCGGGGGGCGCCAGGAGGTCTTCCCGGGGAGGATCCCAAATCTGAAAAG
CGAAAAGGCTTGGAGCTAAAGGTGGTGGCCAAGGCCCTTCTCGGCCCTTCCAGTTCGTC
TGTAATTCCTGGCGCAGCTCCGGGAAGAGGTGCACGAAGTGCAGGCGCGGTGGTTCCCC
AGCAGAACCCTCTGCATCGAGCCGTCTTTGTGGCAATTCTACATTGGTTACATTTAGTA
ACACTTTTTGAAAATGATCATATTTCTCTCACCTCTCATCTTTGGAACGGGAGATGACT
TTTTGCATTGAAACGGGACTTTATTATTCTTACTTCAAGACCATTATTGAAGCACCTTCA
TTTTTGGGAGGACTGTGGATGATTATGAATGACAGGCTTACTGAATATCCTCTTGTAATT
AATGCAGTAAACGCTTCCATATTTATCCAGAGGTAATCATAGCCTCCTGGTATCGACA
TTCATGGGAATAGTGAATTTATTTGGACTAGAACTAAGACCTGCTGGAATGTCACCAGA
ATAGAACCTCTTAATGAAGTTCAAAGCTGATTGCGAGATCCTGCTTGCTTTTATGTTGGT
GTAATCTTTATTTTAAATGGACTAATGATGGGATTGTTCTTCATATATGGAACATACCTA
AGTGGTACTGAACTGGGAGGTCTTATTACAGTACTGTGCTTCTTTTTCAACCATGGAGAG
GCCACCTGTGTGATGTGGACACCACCTCTCCGTGAAAGTTTTTCTATCCTTTCTTGTA
CTTCAGATGTATGTTTTAACTTTGATTCTCAGGACCTCAAGCAATGATAGAAGGCCCTTC
ATTGCACTCTGTCTTTCCAATGTTGCTTTTATGCTTCCCTGGCAATTTGCTCAGTTTATA
CTTTTTACACAGATAGCATCATTATTTCCCATGTATGTTGTGGGATACATTGAACCAAGC
AAATTTCAGAAGATCATTATATGAACATGATTTTCAAGTTACCCTTAGTTTTCATTTTGATG
TTTGGAAATTCATGTACTTATCTTCTTATTATTCTTCATCTTTGTTAATGACATGGGCA
ATAATTCATAAGAGAAATGAAATTCAAAACTGGGAGTATCTAAACTCAACTGCTGGCTA
ATTCAAGGTAGTGCCTGGTGGTGTGGAACAATCATTTTGAAATTTCTGACATCTAAATC
TTAGGCGTTTTAGACCATATTTGCCTGAGTGATCTTATAGCAGCCGGAATCTTAAGGTAT
ACAGATTTTGATACTTTAAAATACACCTGTTCTCCCGAATTTGACTTCATGGAAAAAGCG
ACTCTGCTGATATACACAAAGACATTATTGCTTCCAGTTGTTATGGTGATTACATGTTTT
ATCTTTAAAAGACTGTTGGTGATATTTGCGGTGTTTTAGCTACAAACGTTTATCTAAGA
AAACAGCTCCTTGAACACAGTGAGCTGGCTTTTACACATTGCAGTTGTTAGCATTACT
GCCCTTGCCATTTTAAATTTTGGAGCTAAAGCTGTTTTTGGACACAGCACATGTGTGTTATG
GCTTCTCTTGATATGCTCTTGACGGAAATAAATTGTTTTCTTTGTTTTCAGCTCTTTGGCTG
GCTTTTTCGCAGAGTTCGCAGAGAGAATGTTATCTTTGGCATTCTAACAGTGATGTCAAT
ACAAGGTTATGCAAACCTCTGTAATCAATGGAGCATAACAGGAGAATTTAATGATTTGCC
TCAGGAAGAACTTTTACAGTGGATCAAATACAATACCGTACCAGATGCTGTCTTTGCAGG
TGCCATGCCTACAATGGCAAGTGTCAAGCTGTCTACACTTCATCCCATTGTGAATCATCC
ACATTACGAAGATGCAGACTTGAGGGCTTGGACAAAAATAGTTTATTCTACATATAGTGG
AAAATCTGCCAAAGAAGTAAGAGATAAATTGTTGGAGTTACATGTGAATTATTATGTTTT
AGAAGAGGCATGGTGTGTTGTGAGAACTAAGCCTGGTTGCAGCATGCTTGAAATCTGGGA
TGTGGAAGACCCTTCCAATGCAGCTAACCTCCCTTATGTAGCGTCCTCCTTGAG

Gene 670. >OTTHUMT00007006209 cDNA sequence

TATAACGTGAGGGCTGAATGCAGCCCATTCTCTGGAGAACTTCCTCACACACCGCAGCAA
AGAGAAGACTGAAAGACAAACCTGGGTGCAGCCAGAGAGGTCCAGATAGATGAGCTTGTG
GCATCCATTCCCCAAGTTCAGCCTAGGGACTCCACGTACCCAGCTGGGTCTCATTGTTT
CAGAACTGCATTAGTTAAGATTACCCAGACTTGGATTTCAAAGGAATACTTTCAATTGTTT
CGTCTGTAACACGAAGTAATTGGGGCCAGCTGGATGTGAGGATGCGTGTGGTTACCATTG
TAATCTTGCTCTGCTTTTGCAGCGGCTGAGCTGCGCAAAGCAAGCCAGGCAGTGTGA
GAAGCCGAGTGAATCATGGCCGGGCGGGTGGAGGCCGGAGAGGCTCCAACCCGGTCAAAC
GCTACGCACCAGGCCTCCCGTGTGACGTGTACACATATCTCCATGAGAAATACTTAGATT
GTCAAGAAAGAAAATTAGTTTATGTGCTGCCTGGTTGGCCTCAGGATTTGCTGCACATGC
TGCTAGCAAGAAACAAGATCCGCACATTGAAGAACAAACATGTTTTCCAAGTTTAAAAAGC
TGAAAAGCCTGGATCTGCAGCAGAATGAGATCTCTAAAATTGAGAGTGAGGCGTTCTTTG
GTTTAAACAACTCACCACCTCTTACTGCAGCACAACAGATCAAAGTCTTGACGGAGG
AAGTGTTCATTTACACACCTCTCTTGAGCTACCTGCGTCTTTATGACAACCCCTGGCACT

FIGURE 1 (CONT'D)

GTACTTGTGAGATAGAAACGCTTATTTCAATGTTGCAGATTCCCAGGAACCGGAATTTGG
GGAACACGCCAAGTGTGAAAGTCCACAAGAACAAAAAATAAAAACTGCGGCAGATAA
AATCTGAACAGTTGTGTAATGAAGAAGAAAAGGAACAATTGGACCCGAAACCCCAAGTGT
CAGGGAGACCCCCAGTCATCAAGCCTGAGGTGGACTCAACTTTTTGCCACAATTATGTGT
TTCCCATACAAACACTGGACTGCAAAAGGAAAGAGTTGAAAAAGTGCCAAACAACATCC
CTCCAGATATTGTTAAACTTGACTTGTGCATACAATAAAATCAACCAACTTCGACCCAAGG
AATTTGAAGATGTTTCATGAGCTGAAGAAATTAACCTCAGCAGCAATGGCATTGAATTCA
TCGATCCTGGGTCTTTGAGATGAAACCTGCAAGTAGACTTACGTGAATGATTTTTGCTG
TGCCGCTTTTTTAGGGCTCACACATTTAGAAGAATTAGATTTATCAAACAACAGTCTGCA
AACTTTGACTATGGCGTATTAGAAGACTTGTATTTTTTGAACTCTTGTGGCTCAGAGA
TAACCTTTGGAGATGTGACTACAACATTCCTACTACTGGTTAAAGCACCCTA
CAATGTCCATTTTAATGGCCTGGAATGCAAAACGCTGAAGAATACAAAGGATGGTCTGT
GGGAAAATATATTAGAAGTTACTATGAAGAATGCCCCAAAGACAAGTTACCAGCATATCC
TGAGTCATTTGACCAAGACACAGAAGATGATGAATGGGAAAAAACAATAGAGATCACAC
CGCAAAGAAGCAAAGCGTAATAATTACTATAGTAGGATAAGGTAGAAATTGTTCTGATTG
TAATTAGTTTTGTATTTTCTATACTGGTGTAGAAAACATATGTTTACATTTGATTAACT
GTGTTGCCTATTTATGCAGGGTAATCCAGCTAAAGGAAGCTTTCTTTAATTATAAGTATT
ATTGTGACTATTATAGTAATCAAGAGAATGCTATCATCCTGCTTGCCTGTCCATTTGTGG
AACAGCATCTGGTGATATGCAATTCACACTGGTAACCTGCAGCAGTTGGGTCTTAATGA
TGGCATTAGACTTTTCATAATGTCTGTATAAATGTTTTTACTGCTTTTAGAAAATAAAGA
AAAAAACTTGGTTCATGTTTA

Gene 671. >OTTHUMT00007006222 cDNA sequence

TCCTTCTAGCAGAAATGGCGGCTGCGGCGGCTCGAGTGGTGTGTGCATCCGCGGCGCGGC
GGCGGCTCTGGGGTTTTAGCGAGAGTCTTCTAATCCGAGGCGCTGCGGGACGGTCATTAT
ATTTTGGAGAGAACAGATTAAGAAGTACACAGGCTGCTACCCAAGTTGTTCTGAATGTTT
CTGAAACAAGAGTAACATGTTTAGAAAGTGGACTCAGAGTAGCTTCGGAAGACTCTGGGC
TCTCAACATGCACAGTTGGACTCTGGATTGATGCTGGAAGTAGATACGAAAATGAGAAGA
ACAATGGAACAGCACACTTTCTGGAGCATATGGCTTTCAAGGGCACCAAGAAGAGATCCC
AGTTAGATCTGGAACCTTGAGATTGAAAATATGGGTGCTCATCTCAATGCCTATACCTCCA
GAGAGCAGACTGTATACTATGCCAAAGCATTCTCTAAAGACTTGCCAAGAGCTGTAGAAA
TTCTTGCTGATATAATACAAAACAGCACATTGGGAGAAGCAGAGATTGAACGTGAGCGTG
GAGTAATCCTTAGAGAGATGCAGGAAGTTGAAACCAATTTACAAGAAGTTGTTTTTGATT
ATCTTCATGCCACAGCTTATCAAAATACTGCACTTGGACGGACAATTTTGGGACCAACTG
AAAATATCAAATCTATAAGTCGTAAGGACTTAGTGGATTATATAACCACACATTATAAGG
GGCCAAGAATAGTGCTTGCTGCTGCTGGAGGTGTTTTCCCATGATGAATTGCTTGACTTAG
CAAAGTTTTCATTTCCGTGACTCTTTATGCACACACAAAGGAGAAATACCAGCTCTGCCTC
CCTGCAAATTCACAGGAAGTGAGATTTCGTGTGAGGGATGACAAGATGCCTTTGGCGCACC
TTGCAATAGCTGTTGAAGCTGTTGGTTGGGCACATCCAGATACAATCTGTCTCATGGTTG
CAAACACGCTGATTGGCAACTGGGATCGCTCTTTTGGGGGAGGAATGAATTTATCTAGCA
AGCTGGCCCAGCTCACTTGTGCATGGCAATCTTTGCCATAGCTTTTCACTTTCAACACTT
CCTACACAGATACAGGATTATGGGGACTGTATATGGTTTGTGAATCATCCACTGTTGCAG
ACATGCTACATGTTGTTCAAAAAGAATGGATGCGACTCTGTACAAGTGTACAGAAAGTG
AGGTTGCACGAGCCAGAAATCTTCTGAAAACAACATGTTGTTGCAGCTTGATGGTTCAA
CTCCAATTTGTGAAGATATTGGTAGGCAATGTTATGCTATAATAGAAGGATTCCCATCC
CTGAGCTTGAAGCAAGAATTGATGCTGTGAATGCTGAGACAATTCGAGAAGTATGTACCA
AATACATTTATAATAGGAGTCCAGCTATTGCTGCTGTTGGTAAGCCTGGCTTCTTTTCTT
CTATGCAAAAAGTTGGCCAAGTACTTTTAATTAACCTTCTTTTAAATCCTTAGGTCCCA
TTAAGCAACTACCAGATTTTAAACAGATACGCAGTAACATGTGTTGGCTTCGTGATTAAA
ATGCTCCTAATCAAGATTGTTTGAACACATGTATTTATAAAAACAGAGCTAGAGAAAAATA
AAAATGAACATGTATATACATTTGGAAATTTGAATTAAATACTGTATCATACTTTCAAAG
GATAAAAAGACTACCCCTCT

Gene 672. >OTTHUMT00007006239 cDNA sequence

ACTGGAGCTGCTGCCTCTGTCTGCTAAGATGTGAAGTCCAAGACTGAAAGTAACATAGCA
GAAGGAGAACCAAAAGATATGTTGAGTCTTGATGCTATTTGTTGAACAGTCCTGAATCC

FIGURE 1 (CONT'D)

AGCTGTGTGCGGAGTCAGCGCAGCTTTTGAAGCTGGAGAGCATCATATTTTAGAAAGATCA
AGCAATGTGGATGAGGACACATTAAAAAGAGAAGACCGAGAGGAGGGGACACCACTCAGG
CTTATAACCTCCAGCTCACATTTTCAAGCACCAGGACCAAGCCTAGACCTGAGATCTGG
CACTTGCAAAAAGAAAGATCACCTGGAAGAACAAAATAGAAGACTCCTGCTCCCAATAGG
CTTGGGTGAGGAAGAAGGCTGTTGGCATAATTGTGGAGTAGGAAGATGGAAAACAACCTCC
TAGAGATCCCAACAGCTGAACGCGTGCTTGGGCAGTGGCTGCGGGTGAAGTCATGGGAAG
GCAAGTCATGAAGGGCATTAAATCAAGGATATGTTCTGGGAGTAACTCCCCTGCTTTCCCT
GGATGTGTGCGAGAAAGCATAGGCATCCACTTTCTGACCAACAGGAGACCCAGTCTCAGG
ATGGAGCAGACACCATGCATGGTAGAGCAGAGAGACAGATACAACCTAGGTCCTTGATGA
AATGATTGGCCACTGGATCAGCCACAGTTAAAGACTGCCTACCTTTGGACTTCTGGTTAT
CTTAGGCCAAAATGTCTTTTTTGTTTAAGGCACCTTTGAGCCGGGTTTTCTAAGACCTAG
CAGTCTCAACCATCCAACTAATAAGCTGAATTAAGTAGATTTCTGTCTATGTCCTTCCT
GCCTGATTGGTAGCCCTTGACTCCAATTTGGCCTCATTTTCCGTACCTTACTGGCTGCCT
TTTCCTCTACTCATAGGTCACCTGGAAATAAAATATAGATTTACTTCAA

Gene 673. >OTTHUMT00007006260 cDNA sequence

AAGGGGGCGCGGCGCACGCAGTATGGCGCCCAACATCTACTTGGTTCGCCAGCGGATCAG
TCGACTCGGCCAGAGGATGTCCGGCTTCAGATCAACCTCAACCCGCTCAAGGAGCCACT
CGGCTTCATCAAGGTCCTCGAGTGGATTGCTTCTATCTTTGCTTTTGGCACCTGTGGAGG
TTTTAAGGGCCAAACAGAAATTCAAGTGAATTGTCTCTGCAGTTACTGAGAATAAAAC
TGTTACAGCTACTTTTTGGTTATCCATTCAAGTTGAATGAGGCATCATTTCAAGCCACCTCC
AGGTGTAAACATATGTGATGTAAATTGGAAAGATTACGTCCTCATAGGCGATTACTCTTC
TTCTGCACAATTCTATGTTACCTTTGCAGTCTTTGTGTTCTGTACTGCATTGCTGCCCT
TCTGCTTTATGTTGGCTACACGAGTCTGTATCTGGATAGTCGTAAACTTCCTATGATAGA
CTTTGTTGTTACACTTGTGGCACTTTTTTGTGGTTGGTGAGCACTTCAGCCTGGGCTAA
AGCTCTGACAGATATTAATAATAGCTACTGGTCACAATATTATTGATGAACTTCGCGCTTG
TAAGAAGAAAGCAGTACTGTGTTACTTTGGCTCTGTGACCAGTATGGGATCCCTAAATGT
ATCTGTGATATTTGGCTTTCTAAATATGATACTCTGGGGAGGAAATGCTTGGTTTGTGTA
CAAGGAGACCAGCCTACACAGTCCATCAAATACATCTGCCCCCTCATAGCCAAGGAGGTAT
TCCACCTCCTACCGGAATATAATTAAAGGGAGAAATACACTGTATGAAGTATATGTTGAT
ACTATGACATGTTGCCAACACCTTGAGAAGCATTATTTGTTTCTAATAAAAGTAATGGCT
TTGTCAATATATTGGTGGGTTTTAAACTTTGCTGCTTTTTTACATAAAGCCTGTGCCTTT
CCTAGAAAGTTAAGATGTAAATGTATTCTCACATGTAAATTTGAAAGTTCAAGGGTCTAT
TATGAAATGATACACATTTTTTAAATGAACCATAATTTTTTTCACTAAGCTGTTTGCCTTC
CAAAGTGTTTACACCTTAAGCCTTAACATGTATCTTCATTCAAGAAAACAGTTATATTGTC
ATACCATAGTAGGAAGAAAAACCTTTATTTGGAATATACACTACTGTAAGTTTGTACAGA
TCATATACCTACCACCTGTCTTTGCTTAAAGAGCCTTGATTACATAAATATGTAGGAAAA
AACATATTGAGTTCAAAATTTATATCTAACATTGTTTATGTTATGATTTTTTTTTTAATTG
CAAAGACTAGGTGTATATTTTTTTCTGTTTTTCTAAATGACCCGTGGTACTTAATAGGTG
TACTAAAATTGTGTTGGGAGCAGGGATTTGGAAATTTCTGAGAGATGTGTAGTTAATTTA
GTAATTCTGTTTCATGAGATATGATCTGTTATGCTAGTGGTTAATAGGCTTGCTATGTA
AGTAGAACGTGGCTCAACTAGATATCTTTATATGTATGGGCATTACTCTTAGTGATATTT
GTTTCCTGTCTTTGTTGCTCATGCTGTTTAAAGTGCAGGCTGAGACCCAGCCTCTTTGTA
AGTACAGTAAATAATCCACCGTTTTTTACAGACCCTAGTCAAAGGGTTAAAAAATTAA
GATTGCTTTCATGTTTGAATTTTACCATTGAGAGTCAATGAAGTTGCTATTTTGAGTTT
AGCATTGATATTGTGAAAATAAGTGCAATTTGGATTTTCATGTTTCTTAATATTATTCTT
GTTTCACAAATGAATGATTAAAGGAATTATGCATCATAAAGGAACCTAAGTGAGGTATATG
ATGAGTGTATTGTCTTTCACACACATATAGGTATATTCTGAATACAAGCTTATTACAT
TTTGCTTCTAATCTTTTTGTTGTACAGGGATTCAAGTTTCTTATTCTTACAACATGATT
GTTTATATGTGAAGCACATCTTGCTGTTGCCTTATTTTTGATGCTTTTATTATGACAAG
AATTGTCAATATAAGAATGTATATCTTTTTTGCAACCAATTTAATAAAGGAGTTGAAAGA
AA

Gene 674. >OTTHUMT00007006261 cDNA sequence

CGTCTCAATATGTCTCAAGATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCG
CTTTGATTTACAGCAGCTGCAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCG

FIGURE 1 (CONT'D)

GCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAA
 GAACACTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGA
 GATTGATGCACTGAGTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAA
 AAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCT
 CAAAGTGCAGCGCCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGA
 AGAATACAACAAGGAATTTGCTGAAGTGAAAATCAAGAGGTTACGATAAAAGCACTTAA
 AGAGAAAATCCGAGAATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGA
 GAAGGAACAGAAGTTACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACA
 GATGTCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAGGTTAGAGCCTACAAACAGC
 CCTGGAAAAAAGCTCGAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTAC
 TGCAAAGGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACAGAGGGC
 AGAGGTGGCTCAGAGAGAGGCGGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTC
 CCTCCAGCTGGCCTCACAGATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCT
 GACCCGCTCCAGCCTAGAAGTTGAGTTGGCCGCAAGGAGCGGGAGATCGCACAGCTGGT
 GGAGGACGTGCAGAGACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTGCGCCAGCCA
 GATCTCACAGCTTGAGCAGCAGCTGAGCGCCAAAAACAGCACACTCAAACAAGTGAAGA
 AAAACTCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACATTCTGAAGTC
 CATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCTGGAGGT
 GCTGTTGCTGGAGAAGAACCGCTCGCTGCAGTCCGAGAACGCGCGCTGCGCATCTCCAA
 CAGCGACCTGAGCGGACGCTGTGCAGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCAC
 AGCCACTGAGCAGAGAGAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTAGTC
 CATCCAGCGGCCCGATGCCGAGGGTGCCGCTGAGCACCGCCTGGAGAAGATCCCAGAGCC
 CATCAAAGAGGCCACTGCCCTATTCTACGGACCTGCAGCACCGCCAGCGGTGCCCTCCC
 AGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCCAGCCAGAGGGAGCGCTTCCGTGC
 CCGGAACAGGAGCTTGAGGCGGAGAACCGCCTGGCCCAGCACACCCTCCAGGCCCTGCA
 GAGTGAGCTGGACAGCCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCCT
 GCAGAGCTACCCTGGCCGGGGCAGCGGCAGTGATGACACGGAGCTGCGGTACTCGTCCCA
 GTACGAGGAGCGCCTGGACCCCTTCTCCTCCTTCAGCAAGCGGGAGCGGCAGAGGAAGTA
 CCTGAGCTTGAGTCCCTGGGACAAGGCCACCCTCAGCATGGGGCGTCTGGTTCTCTCCAA
 CAAGATGGCGCGCACCATCGGCTTCTTCTACACACTGTTCTGCACTGCCTGGTCTTCTCT
 GGTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAGAGGGACTGTGCCACCTTCTGCGC
 CAAGAAGTTCGCTGACCACCTGCACAAGTTCACAGAGAATGACAACGGGGCTGCGGCTGG
 TGACTTGTGGCAGTGATACCCCGGGGCTCCCCCGTGACAGTGACGGCTGCGCCTCCACC
 CCGACTGCTCAGTGCATCTAATCACTTAGACTCCCCTGAAGAATCCCCCATGGAACTGC
 CCTTATCCGCTGTCCAGCAGCTGCCAGAGGCCCCAGGTCACCTCGGGTCCCCTTGAAAGA
 ATGTCTCGGTACATCAGGCCCGCTAGGTCCAGAGAGCGAGCCCCCAATGCCCGGCCAGG
 CTAAGCCGCAGAGACCCTCTCAGCCCCACCTCAGGTTAGGGCTCTGCCCCGAGCCTGAC
 CTCTAGCCCTGGTGGCAGAGGTCCCTCAGCTGCGAGGCTAATTGGGTGACCACCGATTCC
 AGCTGCGGTTAATCCAGCTTGGGCCTGTCTGCACTGCGATCCTCTTGGGCTCTCCTAGGA
 TCCCCCATGCCCCGTAAGAGGTGGAAGACGCTTCTTCCAGGACAGCAGGCTTTGAGTC
 CAGCACCCCCAGCCTGCCTTTGCCACCAGCCCCACCCTGCAGAGTATATGAGGCTTGACA
 GAGTCTGCCCCCTCCCCACTGCACCCCAAGAGAGAGAGCCCCAGCCAGCGGAACAGTTT
 CTATTACCCCCTCCCTGCCCCCAGACCCATGTGATTTCTGCTTTCTTTTAGCAAGATA
 TTCTGGTTTCTAGATAAGGAAGAGTCTCTAATGAGCCCCGAGCCCCAGTCTCTTCAGAC
 TCATGGATTGGTCTGAGGGGTCTGAACGTCTCCTAGCCAATCAGAACTGGCTGTGGACCA
 CCCTAGCACGGCCACCTCTCAGGGCCACTGGCAGG

Gene 675. >OTTHUMT00007006262 cDNA sequence

ATGAAAGCAGAGGTTGGAACGATGGAAGCAGAAGTTGGAACGATGGAAGCAGAAGTTGGA
 ATGATGGAAGCAGAAGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTT
 GGAATGATAGAAGTAGAGGTTGGAATGATAGAAGCAGAGGTTGGAATGATGGAAGCAGAG
 GTTGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGCAGAAGTTGGAATGATAGAAGCA
 GAGGTTGGATTGAGGGAAGAAGAGGTTGGAATGTGGAAGCAGAGGTTGGAACGATGGAAG
 CAGAGGTTGGAACGATGGAAGCAGAAGCTGGAATGA

Gene 676. >OTTHUMT00007006265 cDNA sequence

FIGURE 1 (CONT'D)

CGGAAAAGGACAAGGATCCAAACTGGCGAATTTGCTGATCTTCGCGTCCCTCTCCGCTTT
 CCGGCCGGCAGCGCTGCCAGGGTATATTTCTTTTTTCCGATCCTGCAACAGCCTCTTTA
 AACTGTTTTAAATGAGAATGTCCTTGGCTCAGAGAGTACTACTCACCTGGCTTTTCACACT
 ACTCTTCTTGATCATGTTGGTGTGAAACTGGATGAGAAAGCACCTTGGAACTGGTTCCT
 CATATTCATTCCAGTCTGGATATTTGATACTATCCTTCTTGTCTGCTGATTGTGAAAAT
 GGCTGGGCGGTGTAAGTCTGGCTTTGACCCTCGACATGGATCACACAATATTAAAAAAA
 AGCCTGGTACCTCATTGCAATGTTACTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAA
 ACTGGAACAGTTTACTACCATGAATCTATCCTATGTCTTCATTCTTTATGGGCCTTGCT
 GGCTGGGGCTTTAACAGAACTCGGATATAATGTCTTTTTTGTGAGAGACTGACTTCTAAG
 TACATCATCTCTTTCTATTGCTGTTCAACAAGTTACCATTAAAGTGTCTGAATCTGTC
 AAGCTTCAAGAATACCAGAGAACTGAGGGAAAATACCAATGTAGTTTTATACTACTTCC
 ATAAACAGGATTGGTGAATCACGGACTTCTAGTCAACCTACAGCTTAATTATTAGCAT
 TTGAGTTATTGAGATCCTTATTATCTCTATGTAAATAAAGTTTGTTTTGGACCTCATTTT
 TCTACATGA

Gene 677. >OTTHUMT00007006268 cDNA sequence

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCCAAG
 GACATCACTGGCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATC
 AGGTACCGCCCCACCCCGAGGACCGAGGGGCGCTCAGCCTCTCATCGGCCCGCGCTCTC
 CCCGCAAAGGGGACAGCCACAGTGTGGAAGACCCTGTGCCCTTCTGGGGTGAGGAGTAC
 CAAGTGCACCTGCCGCCACCTTCCACGCTGTGGCTTTCTATGTCATGGATGAGGATGCC
 CTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCAC
 CCTAAGGGTTTTCAGCGGGTGGGCCACCTGACGGAGGTGACCCCGATGAGGAGGTGCAG
 GGCAGATCCACCTGCGGCTGGAAGTGTGGCCAGGGGCCGGGCTGCCGGCTACGCTGC
 TCTGTGCTGGAGGCCAGGGATCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTC
 GTCCGAGTGCCTACAAGGGCCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTAC
 CCACGCTGGAATGAGACGTTTGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGC
 GTGGAGGCCTGGGACTGGGACCTTGTTCAGCCGAAACGACTTCTGGGCAAAGTGGTGATT
 GATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCCGGCTGCAGCCCGAC
 CAGTCCAAGAGCCGGCGGCATGACGAGGGCAACCTGGGCTCCTTGCAGCTGGAGGTGCGG
 CTGCGGGACGAGACGGTGCTGCCCTCCAGCTACTACCAGCCACTGGTGCACCTGCTGTGC
 CACGAGGTCAAGCTGGGCATGCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACA
 ACCAGCACCGAGTGTGCGCAGGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAG
 GGGCTGGCCAAGGACTTCTGGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAG
 ACCAACACCTGTTCGGGAGCAACTCTCTGGCCTCAAAGTCCATGGAGTCTTTTCTGAAG
 GTGGCCGGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAG
 GAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGGAAAGTTAAGGATGTAGGGTGCTCC
 GGGCTGCACCGCCCGCAGACCGAGGCGGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGC
 GCCACCTGGGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCCGCCGTG
 GTGCGCGCCACCTTCCGCCAGCTCTTCCGGCGCGTGCGCGAGCGCTTCCCCGGCGCCAG
 CACGAGAATGTACCGTTTCATCGCCGTCAACAGCTTCTGTGCCTGCGCTTCTTCTCTCCC
 GCCATCATGTGCGCCAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACCCAGC
 CGCACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGGACACGCCGGCT
 TCCAGGGCCAAGGAGGCTTGATGGAGCCGCTGCAGCCACCGTGCGCCAGGGCGTGGCG
 CAGCTGAAGGACTTCATCACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTG
 CAGCGGACGCTGAGTTTGAGGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCACAGG
 ACCAAGGGCAAGGGCCCCCTCATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACT
 ACCGAGGCCCTCAGCTTCGCGAAGACGCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTA
 GCCAACATCCGGGCAGCGGAAAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTCATG
 CAGGTATCTACACGGACGACGCCGGCAGGCCCCAGACTGCCTACCTGCAGTGCAAGTGT
 GTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGA
 CTGCTGGGCTCCTACCACCTGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAA
 AAAGAGAAGACAGGTGAGGGCTGCGATAAGACCCGGTCACGGGTGACCTGCAGGAGTGG
 AATGACCCTCTTGACCATGACCTTGAGGCCAGCTCATCTGCCGGCACCTGCTGGGCGTG
 GAGGCCATGCTGTGGGAGAGGCACCGGGAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTG

FIGURE 1 (CONT'D)

CCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAG
GACCTCCGCGAGGCCCATAGCTCCAGCCCGCCGGCTCCCCACCCTCAGAGCCCAACTGC
CTCCTGGAGCTGCAGACGTGA

Gene 678. >OTTHUMT00007007215 cDNA sequence

GTCGCCCTCCGTCTGGTCTGGCGTGTATTCCGAGCGTTGGTGTCTGGCGGTTTCCGAGC
GTTGGTGTCTGGCGGTTTCCGACCGTTGGTGTCTGGCGGTTTCCGACCGTTGGTGTCTGG
CACGCGCCACCCTCTCTTGCTTTGGTTGCGCCATGCCGATGTACCAGACAAGAAGACAAG
AAAATGATTTGAGGACAGCTTCAATCGCGGTGTGAAGAAGAAAGCAGCAAAACGACCACT
GAAAACAACGCCGGTGGCAAAATATCCAAAGAAAGGGTCCCAAGCGGTACATCGTCATAG
CCGGAACAGTCAGAGCCACCAGCCAATGATATTTTCAATGCTGCGAAAGCTGCCAAAAG
TGACATGCAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGG
TAACCGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGT
TTCCATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACT
TATCCTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCCAT
TGTGTAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACT
TTTCTACCCTGAGTGCAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGG
CGCCAGAGGACTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGA
CCACGCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTG
GGAGGGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGG
GCCAGGGACCTTCCACCTCCTAGGGTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACA
AGGCAGGAACGGTGGCATGGCGTGGGGGAACTTGGAGTTGGAAGGTGGCTAATCTTTGA
TTCTATGTTTTTGATCCTCCTGGCACTCCAGACCTGGGTGATATGCAGGAGAGCACACTG
ATAGAAATCCTTGTGTCCAGTGGCCAGCAACTCCTGCCTCAGCCTCCCGAGCAGCTGGGA
CTACAGGTGCCCGCCACCACGCCCGTCTCTACTAAAAACACAAAAAATTAGCCGGGCGTG
GTGGCGCATGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACC
TAGGAGGCAGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACCCAGCCTGGGCAATAA
GAGTGAAACTCCATCTCAAAAAAAAAAAAAAAAAA

Gene 679. >OTTHUMT00007007218 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCCTGAGTGCAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG
ATGGACTCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCTGTTGGCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCACAAACGTATTGGTTGATGAAGGAAGGGCCCATGGTTCTGCCACTGG
CCCTGGACACCCAGTGTGGTTTCCCGTGGAAAGTCCCCCTGGACTGAGTGGCGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCTCTCCGGGCACAGCCAGATCCACC
CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCCCTCACAGAGGATTCACTCACTCTGTTT
AGAATCCCAGGACTCCCTAGGGAAGGAGGTCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCCTAAACCA
GGTGGTCAATCAGGGAGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGCAGTGAGATTC
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGTCTGGGGGCCTCACC
CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT

FIGURE 1 (CONT'D)

CCAACAGTGCCTGCAGATGGAGCCACCCTCGGAGAGTCCACAACAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGAATGAGAGTCTCATCTTGGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTAAAAAAGAAAAAAGAAAAA

Gene 680. >OTTHUMT00007006277 cDNA sequence

ATGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCCCTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGACCGGGGCGTGCTGAAGGACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCTGATGCTTCGGTGCTAAAATAC TATGGATACCTGGAACACTTGGACAGACCCTTCGATTCTAATTACTTTAGGAAAACCTCTCGGCTAATGAAACTTGGAGAGATTACATTGTGGGGCATGGAGCTGGGCCTTCTGAGCATG CAGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACGCTGGGC TCCCCCTCCCTTGATCCCCCAACACCACTGTCTGTTCAAGATTGAGCTGCTTGACTTC CTAGACTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCT

Gene 681. >OTTHUMT00007007220 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGTACTGATACTTATCCTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCATTGTGTAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAAACTTTTCTACCTGAGTGCGAGATAAG AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT TCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCAGACACCTGCC ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG CTGGACTCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCTGTTGGCCCCAATTCC CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA GCTCGCCCCACCCAAACGTATTGGTTTCATGAAGGAAGGGCCATGGTTCTGCCACTGG CCCTGGACACCCAGTGCTGGTTTTCCCGTGAAGTCCCCCTGGACTGAGTGGCGGCTGGGT GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCCGTTCT GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCCTCTCGGGCACAGCCAGATCCACC CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCCCTCACAGAGGATTCACTACTCTGTTT CAGAATCCCCAGGACTCCCTAGGGAAGGAGGTCCAGCCTGGCCTCCAAGACCGTGCTTG CCCAATTCCAGGACTTCCCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCACTAAACCA GGTGGTCAATCAGGGAGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGAGTGAGATTCTGGGTCTCAGTACTGGGAAAGGGTGGAGGCTGAGGCTGCCTGCTGTCTGGGGGCCTCACC CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT CCAACAGTGCCTGCAGATGGAGCCACCCTCGGAGAGTCCACAACAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGAATGAGAGTCTCATCTT GGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTAAAAAAGAAAAAAGAAAAA

Gene 682. >OTTHUMT00007007226 cDNA sequence

ATGGCCCAGGAGGAGGGTGGGAGCCTGCCCGAGGTGCGGGCGGGGTAGGGCCGCGCATGGCATCCCCGACCTGGCCCCAAAGCTCCATTTCTATGACCGCTGGGCTCCGGACTACGAC CAGGATGTGGCCACCCTGCTGTACCGTGCGCCCGCCTCGCAGTGGACTGCCTCACACAA

FIGURE 1 (CONT'D)

GCCCTTCCAGGCCCGCCCCACAGTGCCCTGATCCTGGACGTGGCCTGTGGCACAGGCCTA
GTGGCTGCCGAGCTGCGGGCTCCAGGCTTCCTCCAGCTGCATGGGGTGGATGGGAGCCCA
GGGATGCTGGAACAGGCCCGAGCCCCCGGCCTCTATCAGCGCCTCAGCCTCTGCACCCCTG
GGCCAGGAGCCTCTGCCCAGCCCGGAAACCTTCGACGCGGTGCTGATAGTCGGTGCCCTC
AGTGACGGCCAGGTGCCCTGCAATGCGATACCTGAGCTACATGTACCAAGCCATGCCTT
TGGAGCATCTCTTTCTCTTTCTGGTCTCAGTCTTCTCATCTGGGAAATGGGGCTGCTCA
GGGGAGATGAGAGCTGTGAGCACCGTTTGTAACCTTTGCACATTGCGCTGCCCGGGCTGG
GCTGGTGTGTCTGACCACCAGGACCAACTCGTCCAACCTTCAATACAAGGAGGCTCTGGA
GGCCACCCTGGACAGGCTGGAGCAGGCTGGGATGTGGGAAGGCCTGGTGGCCTGGCCTGT
GGACCGCCTGTGGACCGCTGGGAGCTGGCTACCTCCGAGCTGGAGGTGGTATCCGGCATC
TCTGCCAAGGATGGCTTCATCTCCGGCATTGTCTACCTGTACCGAAAGTGGAAGGCGACC
CAGGTTGAGGAAGTGAGATCCAGCCCCCAGCCCCCAGCTGGCCCCCTGA

Gene 683. >OTTHUMT00007007227 cDNA sequence

ATGTGGGGCAGCACCAAGGGCCTGGGCCTGGCCTTGCTCAGTGCCTGGGAGCAGCTGGGC
CTGTCTGTGGCCATCTGGACAGATCTGTTTTTGTCTGTCTGCACGGCCTGATGTTGGTG
GCCTTGCTCTTGGTGGTAGTGACCTGGAGGGTGTGTGAGAAGTCCCACTGCTTCCGACTG
GGCAGGCAGCTCAGTAAGGCCTTGCAAGTGAACCTGCGTGCTGTCTGACCTGCTAGAGGAC
CTACAGAGACAGAATGAGCAGAAAGCACCCCTGGGGCCGTTGGCATCATCCTTGGACCATC
CTGATGGACCTTCCCATCTCATCCCATCCGAGCCCGCTGCTGGAAATGGGAAGCTGACA
TGTCCCAAAGGTCGATGCACTGGAATGCCCCGAGGTTCATCCTCTGGGAGTGTCCACATAT
TTGTGA

Gene 684. >OTTHUMT00007006280 cDNA sequence

ATGTCTCCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGCGGATAGCGAGTGTC
AGGGACGGCCGGGGCCGGGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCTTCTCGGCCTGTCTG
CTGGTGGCCTCCTACTGTACCTCGTGCCTGCTGCGGCTGCGCTGGCCTGGCTGGCCGTG
GGGACTACCGCGGCTGGTGGGGACTGAGCCGCGAGCCCCGAGGTTGCGCGCCCTTGTCC
TCCTTCGTTTCAAGGCGCGACATCGGCGAACACTGTTGCTTTCGCTTCCGCTCCGGCCAAGTCG
ACAGCCAACGGAAACCTCCTAGAGCCGCGGACCCCTGCTCGAAGGACCTGACCCCTGCCGAA
CTGCTCCTCATGGGCAGTTACCTGGGCAAGCCCGGGCCGCGCAGCCCGCCCCCGCTCCG
GAGGGCCAGGACCTGCGGAATAGGCCTGGCCGCGCCGCCACCCGCCCCGGCGCCGCGC
TCCACACCGCCCTCCCCGCGGACCCATCGCGTTTACCACTTTTACCCCTCTCTCCCCACT
CCTCTTCTCCGACCCCTCCGGGAGGCCTTCCCCAGATCGTGGGACTTTACCAGATCGGTTT
GTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTA
CTTCCACAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCC
AGGATGGTGTGTAGCCAGTGACTGTGAGGATCGCCCTCCTGACAGAAGATTTTACGT
TCTGCGCCAGAGCAGATAATCAGCTCAACACTGTCTGTCACCATCAAGTAATGCCCCAGAC
CCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGGACAGTG
GAGGAAGAAGACCAATATTCTTTGATGGCCAGGAAAATAAAAGACGCCATGATAGCAGT
GGCAGTGGACATTGAGCATTTGAGCCCCCTGGTGGCCAGTGGAGTCCCCGCTTCTTTTGTG
CCTCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAG
AGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACACAAGTGGCATCCCTAGC
TCCAGCCGCAATGCCATTACCACTTCTACAGCTCCACTCGAGGCATCTCACAGCCAGC
CTCATCCCGCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGGTATTGCGCATTCTC
CTGCAGTTTTTCATTTGCTACGTGGACAGAAGGGGGTGAGGAAGAAGAAGAGCTGTGTAT
CATTCCAGTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCCAGGGAGAAAAGGCAGAT
ACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAG
CGTAAGCGGAAAGTTGAGCTGTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCCTCCA
CCTCCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGTGTGCTCGAACTCTGTCACTGAG
ACCCACCTACCACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCAACTGCCTCC
CCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATG
CAGACTCCCCCGAGCCTGCCACCTGCCCATCTGCTGGAGCAGCAACCACTGAGGCCCTC
TCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGGCCGCCA
GGGCTGCTCCCCAGCCCCCTCTTTGACTCCAAACCCCGACCACTTTGCTGGGGCTGATC

FIGURE 1 (CONT'D)

CCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAAGCAGAG
ACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCCTG
TTTGGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGCATCT
CCCATGTTCAAGCCATTTTTCAGGCTCCACCAAGAGTGAGAAGGAAGGCCCCACACCG
CCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAGC
ACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCC
TTGCCTGCTCCCTTCTTCAAGCAGACAATACTACTCCCGCCACTGCTCCCACCACAACCTGCC
CCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAGT
CCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGC
AGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTCTCTTCGGG
GCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATGGGCTCCATATTCCAGTTTGGC
AAACCTCCTGCCTTGCCACAACCACCACAGTCACCACCTTCAGCCAGTCCCTGCCACT
GCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTGGCAGCACCTC
GCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTAGTAACACGAGCACC
CCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGA
GCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCAAGCCA
GCCCTTACCCCCAGCTTTGGCAGCTCTTTCACCTTTTGAAACTCTGCAGCCCCGGCCCCG
GCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCAGTGCCT
ACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAAGCCAG
GCTTCCGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTC
TTCTCCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCAGACCGCCAGCAGC
GGGAGCAGCAGCTCGGTGTTTTGGCAGCACAACACCATCACCTTCACGTTTGGGGTTG
GCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCC
ACCACCGGAGCTTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCC
TTCACAGGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGCCAGAGCACACCGTTTGCC
TTCAACGTGGGCAGCACAACCTGAGAGCAAACCTGTGTTTGGAACCGCCACCCCACTTT
GGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGGCAGCAGCCTCTCCTTTGGGGCA
TCTTCAGCACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTCTCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCCCAGGGGCTCGACAGCGACTGCAGGCCGAAGGCAG
CACACCCGCAAAAAGTAG

Gene 685. >OTTHUMT00007006283 cDNA sequence

ATGGCCATACTGCCCAAAGTAATTTATAGATTCAATGCCATCCCCATCAAGCTACCAATG
ACTTTCTTACAGAATTGGAAAAAATACTTTAAAGTTCATATGGAACCAAAAAAGAGCC
CGCATTGCCAAGACAATCCTAAGCCAAAAGAACAAAGATGGAGGCATCACACTACCTGAC
TTCAAATATACTACAAGGCTACAGTAACCAAAACAGCACTGAGGGCTTTATCTGTTTGT
CCAGAAGCCAGGGAGGATGTGGATGGAGAGCACGCAGTGAAGCGTCAGAAGGTAAGAGGC
CAGACACGCTGCAGGCCAGAAACGGCCCCGCAAGTGGCTCCAGGTAGCACAGTTTGAAACC
AGCAGATCCAATCCCTTCATTTTACAGAAAAAGAAACCCACAGAAGGTGAAAAAATGGGG
AAACGTGACAAAATTACAGTGTGATGCATCCAGCCTGGGCCAGAAACAAAAGAGGCCTG
GAGAGAATGTGAGGGGCGTGGTGTAGAAGTCGAACCTTGCTTGGTAGAGGCGGTGGCTTT
GAGGACCCTGGCGATGGAGAGGGTGTGTACACTGTTAAGGGCCCATCTGGGAAACCGCAG
CCTGTGGAGATGTTGGGGACAAAGCCTTTTTTGTCTTTGCCACCGGAAAAGAAACAATT
ATTGAACACATACTACATGTGAGGTACATCTTGGCAGCCTATGAATACAACCTGCAAGCAG
CGACCTGGAAAATCTTGGTCTTGTCCAGCATATGCAAAGGGCAGGAATTCCTGAGGAGC
TCTTTGCATGAGAACTGAATGCAAATCCTCCAGCCCTTCCATCCTTGCCGAAGCAAGA
AGGGAGGAAGAGCCAAACATTGCCACTCACTTGGGTTCTCCTTCAAACCTCCATGAAGGAC
ATCTCATCAGCTCCATTTGGCACTGCCCCCTTCATGGGCAGGCTTTCACTCCAGACCACGT
TATGGCCACGGCTCAAATCTGTTTCACTGCTGATACACCAGGTTCCCTCTACCACAGG
ACCTTTGCACTGTCTACACTGCCTGGAATGTTGAGGCTGCAAGAAAACATGTGA

Gene 686. >OTTHUMT00007006288 cDNA sequence

ATGGCGGGTCTGACGGCGGGCGGCCCGGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCCTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGTTCCCGGAGGGCTTGCGGGTGTGGCCTTGGGGCAGGGCTCGGC

FIGURE 1 (CONT'D)

GCCTTCCCCGAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCT
GCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGC
TTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAA
GTGCCGGGTGTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTT
CCCGGTGTGGGGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCA
GGTGTAGGTGGAGCTTTTGTCTGGAATCCAGGAGTTGGACCTTTGGGGGACCGCAACCT
GGAGTCCCACTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCC
TACACCACAGGGAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGC
AAGGCTGGTTACCCAACAGGGACAGGGGTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCT
AAAGCAGCAGCAAAGTTCCGTGCTGGAGCAGCCGGAGTCTCCCTGGTGTGGAGGGGCT
GGTGTTCCTGGCGTGCCTGGGGCAATTCTTGAATTGGAGGCATCGCAGGCGTTGGGACT
CCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCA
GGCTTAGTGCCTGGTGGGCCAGGCTTTGGCCCCGGAGTAGTTGGTGTCCAGGAGCTGGC
GTTCCAGGTGTTGGTGTCCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCCA
GGTGTGCGGTTCCAGGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCA
GCCAAATACGGGGCCAGGCCCCGAGTCCGAGTTGGAGGCATTCTACTTACGGGGTTGGA
GCTGGGGGCTTTCCCGGCTTTGGTGTGCGAGTCCGAGGTATCCCTGGAGTGCAGGTGTC
CCTGGTGTGCGAGGTGTTCCCGGAGTCCGAGGTGTCCCGGAGTTGGCATTTCCTCCCGAA
GCTCAGGCAGCAGCTGCCGCCAAGGCTGCCAAGTACGGAGTGGGGACCCAGCAGCTGCA
GCTGCTAAAGCAGCCGCCAAGCCGCCAGTTTGGGTTAGTTCTTGGTGTGCGCGTGGCT
CCTGGAGTTGGCGTGGCTCCTGGTGTGCGGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGA
GTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGC
CCTGGTGGAGTTGCAGCTGCAGCAAATCCGCTGCCAAGGTGGCTGCCAAGCCAGCTC
CGAGCTGCAGCTGGGCTTGGTGTGCGCATCCCTGGACTTGGAGTTGGTGTGCGCGTCCCT
GGACTTGGAGTTGGTGTGCTGGTGTCTTGGACTTGGAGTTGGTGTGCTGGTGTCTTGGCTTC
GGGGCAGGTGCAGATGAGGGAGTTAGGCGGAGCCTGTCCCCTGAGCTCAGGGAAGGAGAT
CCCTCCTCCTCTCAGCACCTCCCCAGCACCCCTCATCACCCAGGGTACCTGGAGCCCTG
GCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGG
GCTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGGACCCGCCGCCCGCT
GCCGCAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTC
GGAGGACTCGGAGTCCGAGGGCTTGGAGTTCCAGGTGTTGGGGGCTTGGAGGTATACCT
CCAGCTGCAGCCGCTAAAGCAGCTAAATACGGTGTGCTGGCCTTGGAGGTGTCTAGGG
GGTGCCTGGGAGTTCCCACTTGGAGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCC
ATTTTCCAGGTGGGGCTGCCTGGGGAAAGCTTGTGGCCGGAAGAGAAAATGA

Gene 687. >OTTHUMT00007006291 cDNA sequence

ATGGCTCAGAGGCTCAGGCAAGAGCTACAGATGCTCATGACCGAATGTCTCACCTGGGCC
CGGAATGGCAGCAGCAAGCACCTCTCAGCCTAGCCCAGAAGCCAGAGTTCTATTTTCAT
CAGTTGCAAAGCAGAGACAATGCCATCTGCCCCGATAGCAGAGCAAAGGCAGCCCTGGG
GTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGAT
GAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTGGCG
GAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTCGTGTCTCCCT
GAGTACTACGAGGCCTTCAACAGGCTGCTTGGAGATCCTGTATTAAAAGACTCCTGGCC
TGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTCATAGCGTATTTT
AGCCGGGCCCGGCTCCCTCCTGGCAATACCAACGCATTATTTCTTCTGGCTCTCTAT
CTGGCCAATGACATGGAGGAGGACGATGAGGCCCCCAAACAAAACATCTTCTACTTCCTG
TACGAGGAGACCCGCTCTCATATACCTTGTCTCCGTGAGCTTTGGTTCCAGTTATGCCGT
TACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCGGAAGTATCGG
TTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAG
ATCCAGGCTTATGACCCAGAGCACTGGAACACCGGACCCAGGGGAGATGTGGATTTTTCAG
CAGGAACCTTTATTCCAATGCTAATGGCAGACATCAGGAAGGAGGAGGAACCATTTGTG
CAGATCATCTAG

Gene 688. >OTTHUMT00007007252 cDNA sequence

ATGTTGTCCAGGCTGGCCTTGAACCTCTGGGTTCAAGCAATCCTCCTGCCGTGGCCTCCC
AAAGTGTCTGGGATTACAGCCCCGGCGCCGCGGCTCCTTTAAGAGCGGGAGGGGCGCCCCC

FIGURE 1 (CONT'D)

TGGCGGCGGAGCGGTGCGTGCGGCCGGAGCCGGAGCGGATCCTGGAGCCGGAGCGGAGCG
GAGCGGAGCGGAGCCGGGGCGGAGCGGGCCGAGCGGGCCGAGCCAGCAGCCGAGCTGGGG
GCGCGGGCGGGCGGCATGTACCGGGCCCGGGCGGCGGGCGGGCCGGAGCCCGGCAGC
CCGGGGCGCTTTGGGATCCTCAGCACCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCC
AAGCTGGACCGGATCGTGCGGCTCAGCAGGAAGTTCCAGGGCCTGCAGCTGGAGCGTGAG
GCCTGCCTGGCCTCCAACCTACGCGCTGGCCAAGGAGAACCTGGCCCTGCGGCCCCGCTG
GAGATGGGCGGGCTGCCCTGGCCATCAAATACCAGGAGCTTCGTGAGGTGGCCGAGAAC
TGCGCGGACAAGCTGCAGCGACTGGAAGCATGCATCGCTGGAGTCCCCACTGCGCGCTG
GGCTGGCTGCAGGCTGAGCTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAG
CTGCTGCTCGGGGAGCAAAGCCTGGAGGCCTTCCTGCTGCTTCCAGCGTGGCCGCGCC
CTGGCCACCTGAGGCGGACGCAGGCAGAGAAGCTGCAGGAGCTGCTGCGGCGTCGGGAG
CGTTCTGCCCAGCCGGCCCCCACCTCGGCTGCTGATCCCCCAAATCCTTCCCGGCTGCA
GCTGTCTGCCCAGTGGGGCCGCGGGGGCCACCAGCAGTGGCCCGGAGCCTGCCCCC
TTGGACTCCCGCCAGTGGCCCCACTGAAGGGCTCCCCCGGGTGGCCCCCTCGGCCCGGCC
CCCCTGCTGAGCCCTCGGCCCTCGCAGCCAGAGCCCCCCCCACTTCACACTCAGTCCCGAA
CAGAAACACTTGAGCACCTACAATCTCAGCCAACTCCCTGCCAACGTCCAGTGACTCA
CAGTTAAGAGAGCTTCAGCAGCAGCTCTGA

Gene 689. >OTTHUMT00007007256 cDNA sequence

CTCGGCGGGGGCCCGCTCCCAGGCCCGCTCCCAGCCCGTTCCGCTCCCGCTCCGCTTCT
TCTCGCCTTCTCTCCGCGTGGCTCCTCCGTCCCGGCGTCTCCAAACTGAATGAGCGAGC
GGCGCGTAGGGCGCGCGGCGGCGGCGGCGGCGGCGGCATGGAGCGCAGTGGCTGGGC
CCGGCAGACTTTCTCCTAGCGCTGTTGCTGGGGGCGACGCTGAGGGCGCGCGCGGCGGC
TGGCTATTACCCCGCTTTTTCGCCCTTCTTTTTCTGTGCACCCACCACGGGGAGCTGGA
AGGGGATGGGGAGCAGGGCGAGGTGCTCATTTCCCTGCATATTGCGGGCAACCCACCTA
CTACGTTCCGGGACAAGAATACCATGTGACAATTTCAACAAGCACCTTTTTTACGCGCTT
GCTGGTGACAGGACTATACACATCTACAAGTGTTCAAGCATCACAGAGCATTGGAGGTTT
CAGTGCTTTTCGATTTGGGATCATGTCTGACCACAGTTTGGTAACAGTTTATGTGCAG
TGTGGTAGCCTCTCACGTGAGTCACCTGCCACAACCAACCTCAGTTTCATCTGGATTGC
TCCACCTGCGGGCACAGGCTGTGTGAATTTATGGCTACAGCAACACACCGGGGCCAGGT
TATTTTCAAAGATGCTTTAGCCCAGCAGTTGTGTGAACAAGGAGCTCCAACAGATGTCAC
TGTGCACCCACATCTAGCTGAAATACATAGTGACAGCATTATCCTGAGAGATGACTTTGA
CTCCTACCACCAACTGCAATTAAATCCAAATATATGGGTTGAATGTAACAACCTGTGAGAC
TGGAGAACAGTGTGGCGCGATTATGCATGGCAATGCCGTACCTTCTGTGAACCATATGG
CCCACGAGAACTGATTACCACAGGCCTTAATACAACAACAGCTTCTGTCTCCAATTTTC
CATTGGGTGAGTTTCATGTGCTTTAGTTATTAGACCCCGAGCATCATCGTGTATATGC
CAAGAATAACTCTGCGGACTGGATTGAGCTAGAGAAAATTAGAGCCCTTCCAATGTCAG
CACAATCATCCATATCCTCTACCTTCTGAGGACGCCAAAGGGGAGAATGTCCAATTTCA
GTGGAAGCAGGAAAATCTTCGTGTAGGTGAAGTGATGAAGCCTGCTGGGCCTTAGATAA
CATCTTGATCATCAATTCAGCTCACAGACAAGTCGTTTTAGAGATAGTCTCGACCCAGT
GGACACAGGCAACTGGCTTTTCTTCCAGGAGCTACAGTTAAGCATAGCTGTGAGTCAGA
TGGGAACTCCATTTATTTCCATGGAAATGAAGGCAGCGAGTTCAATTTTGCCACCACAG
GGATGTAGATCTTTCCACAGAAGATATTCAAGAGCAATGGTCAGAAGAATTTGAGAGCCA
GCCTACAGGATGGGATGTCTTGGGAGCTGTCATTGGTACAGAATGTGGAACGATAGAATC
AGGCTTATCAATGGTCTTCTCAAAGATGGAGAGAGGAAATTATGCACTCCATCCATGGA
CACTACCGGTTATGGGAACCTGAGGTTTTACTTTGTGATGGGAGGAATTTGTGACCCTGG
AAATTCTCATGAAAATGACATAATCCTGTATGCAAAAATTGAAGGAAGAAAAGAGCATAT
AACACTGGATACCCTTTCTATTCTCATATAAGGTTCCGTCTTTGGTTTTCTGTGGTCAT
CAATCCTGAACTTCAGACTCCTGCTACCAAATTTTGTCTCAGGCAAAAGAACCATCAAGG
ACATAATAGGAATGTCTGGGCTGTAGACTTTTTCCATGTCTTGCCTGTTCTCCCTTCTAC
AATGTCTCACATGATACAGTTTTTCCATCAATCTGGGATGTGGAACGCATCAGCCTGGTAA
CAGTGTGAGCTTGAATTTTCTACCAACCATGGGCGCTCCTGGTCCCTCCTTCACACTGA
ATGCTTACCTGAGATCTGTGCTGGACCCACCTCCCCCACAGCACTGTCTACTCCTCTGA
AAACTACAGTGGGTGGAACCGAATAACAATTCCCCTTCTTAACGCAGCACTAACC CGAA
CACCAGGATTGCTGGAGACAAACAGGACCAATCCTTGAAACATGTGGGCAATTGATAA

FIGURE 1 (CONT'D)

TGTTTATATTGGCCCGTCATGTCTCAAATTCTGTTCTGGCAGAGGACAGTGCACTAGACA
TGGTTGCAAGTGTGACCCTGGATTTTCTGGCCAGCTTGTGAGATGGCATCCAGACATT
CCCAATGTTTATTTCTGAAAGCTTTGGCAGTTCCAGGCTCTCCTCTTACCATAAATTTTA
CTCTATCCGTGGTGCTGAAGTCAGCTTTGGTTGTGGTGTCTTGGCCAGTGGTAAGGCCCT
GGTTTTCAACAAAGATGGGCGGCGTCAGCTAATTACATCTTCTTGACAGCTCACAATC
CAGGTTTCTCCAGTTTCACTGAGACTGGGGAGCAAATCTGTTCTGAGCACGTGCAGAGC
CCCTGATCAGCCTGGTGAAGGAGTTTTGTTGCATTATTCTTATGATAATGGGATAAATTG
GAAACTCCTGGAGCATTATTATATCTCAGCTATCATGAGCCAGAATAATCTCCGTAGA
ACTACCAGGTGATGCAAAGCAGTTTGAATTTCAGTTGAGATGGTGGCAACCGTATCATTC
TTCCAGAGAGAAGATGTATGGGCTATTGATGAGATTATCATGACATCTGTGCTTTTCAA
CAGCATTAGTCTTGACTTTACCAATCTTGTGGAGGTCACTCAGTCTCTGGGATTCTACCT
TGGAAATGTTCAGCCATACTGTGGCCACGACTGGACCCTTTGTTTTACAGGAGATTCTAA
ACTTGCCTCAAGTATGCGCTATGTGAAAACACAATCAATGCAGATAGGAGCATCCTATAT
GATTTCAGTTTCAGTTTGGTGTATGGGATGTGGCCAGAAATACACCCACACATGGACAACCA
GGTGAAGCTGGAGTACTCAACCAACCACGGCCTTACCTGGCACCTCGTCCAAGAAGAATG
CCTTCCAAGTATGCCAAGTTGTGAGGAATTTACATCAGCAAGTATTTACCATGCCAGTGA
GTTTACACAGTGGAGGAGAGTCAATAGTGCTTCTTCCCGAGAAAATTGGTCCAGTGCTAC
CCGTTTTCCGCTGGAGCCAGAGCTATTACACAGCTCAAGACGAGTGGGCTTTGGACAGCAT
TTACATTGGGCAGCAGTGCCCCAACATGTGCAGTGGGCATGGCTCATGCGATCATGGCAT
ATGCAGGTGTGACCAGGGGTACCAAGGCACTGAATGCCACCCAGAAGCTGCCCTTCCGTC
CACAATTATGTGAGTTTTGAGAACCAGAATGGCTGGGAGTCTGACTGGCAAGAAGTTAT
TGGGGGAGAAATTGTAAAACAGAAACAAGGGTGTGGTGTCTCTCTTCTGGATCATCTCT
GTACTTCAGCAAGGCTGGGAAAAGACAGCTGGTGAGTTGGGACCTGGATACTTCTTGGGT
GGACTTTGTCCAGTTCTACATCCAGATAGGCGGAGAGAGTGCTTCATGCAACAAGCCTGA
CAGCAGAGAGGAGGGCGTCCTCCTTCAGTACAGCAACAATGGGGGCATCCAGTGGCACCT
GCTAGCAGAGATGTACTTTTTCAGACTTCAGCAAACCCAGATTTGTCTATCTGGAGCTTCC
AGCTGCTGCCAAGACCCCTTGCACCAGGTTCCGCTGGTGGCAGCCCGTGTCTCAGGGGA
GGACTATGACCAGTGGGCAGTCGATGACATCATCATTCTGTCCGAGAAGCAGAAGCAGAT
CATCCCAGTTATCAATCCAACCTTTACCTCAGAACTTTTATGAGAAGCCAGCTTTTGATTA
CCCTATGAATCAGATGAGTGTGTGGTTGATGTTGGCTAATGAAGGAATGGTTAAAAATGA
AACCTTCTGTGCTGCCACACCATCAGCAATGATATTTGGAAAATCAGATGGAGATCGATT
TGCAGTAACTCGAGATTTGACCCTGAAACCTGGATATGTGCTACAGTTCAAGCTAAACAT
AGGTTGTGCCAATCAATTCAGCAGTACTGCTCCAGTTCTTCTTCAGTACTCTCATGATGC
TGGTATGTCTCTGGTTTTCTGGTGAAAGAAGGCTGTTACCCGGCTTCTGCAGGCAAAGGATG
CGAAGGAAACTCCAGAGAACTAAGTGAGCCACCATGTATCACACAGGGGACTTTGAAGA
ATGGACAAGAATCACCATTGTTATTCCAAGGTCTCTTGCATCCAGCAAGACCAGATTCCG
ATGGATCCAGGAGAGCAGCTCACAGAAAAACGTGCCTCCATTTGGTTTTAGATGGAGTGTA
CATATCCGAGCCTTGTCCCAGTTACTGCAGTGGCCATGGGGACTGCATTTTCAGGAGTGTG
TTTCTGTGACCTGGGATATACTGCTGCACAAGGAACCTGTGTGTCAAATGTCCCCAATCA
CAATGAGATGTTTCGATAGGTTTTGAGGGGAAGCTCAGCCCTCTGTGGTACAAGATAACAGG
TGCCCGAGTTGGAACCTGGCTGTGGAACACTTAACGATGGCAAATCTCTCTACTTCAATGG
CCCTGGGAAAAGGGAAGCCCGGACGGTCCCTCTGGACACCAGGAATATCAGACTTGTTC
ATTTTATATACAAATTGGAAGCAAACTTCAGGCATTACCTGCATCAAACCAAGAACTAG
AAATGAAGGGCTTATTGTTTCAGTATTCAAATGACAATGGGATACTCTGGCATTGTCTTCG
AGAGTTGGACTTCATGTCCTTCTTGGAAACACAGATCATTTCCATTGACCTGCCACAGGA
CGCGAAGACACCTGCAACGGCATTTTCGATGGTGGCAACCGCAACATGGGAAGCATTTCAGC
CCAGTGGGCTTTGGATGATGTTCTTATAGGAATGAATGACAGCTCTCAAACCTGGATTTCA
AGACAAATTTGATGGCTCTATAGATTTGCAAGCCAACTGGTATCGAATCCAAGGAGGTCA
AGTTGATATTGACTGTCTCTCTATGGATACTGCTCTGATATTCACTGAAAACATAGGAAA
ACCTCGTTATGCTGAGACCTGGGATTTTCATGTGTGAGCATCTACCTTTTTGAGTTTGA
AATGAGCATGGGCTGTAGCAAGCCCTTCAGCAACTCCACAGTGTACAGCTCCAGTATTC
TCTGAACAATGGCAAGGACTGGCATCTTGTCAACGAAGAGTGTGTTCTCCAACCATTTGG
CTGTCTGCATTACACGGAAAGTTCAATTTACACCTCGGAAAGATTCCAGAATTGGAAGCG
GATCACTGTCTACCTTCCACTCTCCACCATTTCTCCAGGACCCGGTTTCAGATGGATTCA

FIGURE 1 (CONT'D)

GGCCAACTACACTGTGGGGGCTGATTCTCTGGGCGATTGATAATGTTGTACTGGCCTCAGG
 GTGCCCTTGGATGTGCTCAGGACGAGGGATTTGTGATGCTGGACGCTGTGTGTGTGACCG
 GGGCTTTGGTGGACCTATTGTGTTCTCTGTTGTTCTCTGCCCTCGATTCTTAAAGACGA
 TTTCAATGGGAATTTACATCCTGACCTTTGGCCTGAAGTGATGGTGCAGAGAGGGGGAA
 TCTGAATGGTGAACCATCAAATCTGGAACATCTCTAATTTTTAAAGGGGAAGGACTAAG
 GATGCTTATTTCAAGAGATCTAGATTGTACAAATACAATGTATGTCCAGTTTTCACTTAG
 ATTTATAGCAAAAAGTACCCAGAGAGATCTCACTCTATTCTGTTACAATTCTCCATCAG
 TGGAGGAATCACTTGGCACCTGATGGATGAATTTTACTTTCTCAAACAACGAATATACT
 TTTTCATCAATGTTCCCTTGCCATACACTGCCCAAACCAATGCTACAAGATTCACTCTG
 GCAACCTTATAATAACGGTAAGAAAGAAGAAATCTGGATTGTTGATGACTTCATTATCGA
 TGGAAATAATGTAAACAACCTGTGATGCTCTTGATACATTTGATTTTGGGCCAGAGA
 AGACAATTGGTTTTTCTATCCTGGTGGTAACATCGGTCTTTATTGTCCATATTCTTCAA
 GGGGGCACCTGAAGAAGATTCACTATGGTGTGTTGTTTCAAATGAAGTTGGTGAGCATT
 CATTACCACCCGTGACCTAAATGTGAATGAGAACACCATCATACAATTTGAGATCAACGT
 TGGCTGTTTCGACTGATAGCTCATCCGCGGATCCAGTGAGACTGGAATTTTCAAGGGACTT
 CGGGGCGACCTGGCACCTTCTGCTGCCCCCTCTGCTACCACAGCAGCAGCCACGTGAGCTC
 TTTATGCTCCACCGAGCACACCCAGCAGCACCTACTACGCAGGAACCATGCAGGGCTG
 GAGGAGGGAGGTGCTGCACTTTGGGAAGCTGCACCTTTGTGGATCTGTCCGTTTCAGATG
 GTACCAGGGATTTTACCCTGCCGGCTCTCAGCCAGTGACATGGGCCATTGATAATGTCTA
 CATCGGTCCCCAGTGTGAGGAGATGTGTAATGGACAGGGGAGCTGTATCAATGGAACCAA
 ATGTATATGTGACCCTGGCTACTCAGGTCCAACCTGTAAAATAAGCACCAAAAATCCTGA
 TTTTCTCAAAGATGATTTTGAAGGTGAGCTAGAATCTGATAGATTCTTATTAATGAGTGG
 TGGGAAACCATCTCGAAAGTGTGGAATCCTTTCTAGTGAAACAACCTCTTTTTCAATGA
 AGATGGCTTGCGCATGTTGATGACACGAGACCTGGATTATCACATGCTAGATTTGTGCA
 GTTCTTTCATGAGACTGGGATGTGGTAAGGCGTTCTTGACCCAGGAGTCAACCCGTGCT
 CCTACAGTATTCTCTCAACGGTGGCCTCTCGTGGAGTCTTCTTCAGGAGTTCTTTTTCAG
 CAATTCAGCAATGTGGGCAGGTACATTGCCCTGGAGATACCTTTGAAAGCCCGTTCTGG
 TTCTACTCGCCTTCTGCTGGTGGCAACCGTCTGAGAATGGGCACCTTCTACAGCCCCTGGGT
 TATCGATCAGATTCTTATTGGAGGAAATATTTCTGGTAATACGGTCTTGGAAGATGATTT
 CACAACCTTGATAGTAGGAAATGGCTGCTTCAACCCAGGAGGCACCAAGATGCCCGTGTG
 TGGCTCTACTGGTGATGCCCTGGTCTTCATTGAAAAGGCCAGCACCCGTTACGTGGTCA
 CACAGACGTTGCCGTGAATGAGGATTCTTCTCTACAGATAGACTTCGCTGCCTCCTGCTC
 AGTCACAGACTCTTGTTATGCGATTGAATTGGAATACTCAGTAGATCTTGGATTGTCATG
 GCACCCATTGGTAAGGGACTGTCTGCCTACCAATGTGGAATGCAGTCGCTATCATCTGCA
 ACGGATCCTGGTGTGAGACACTTTCAACAAGTGGACTAGAATCACTCTGCCTCTCCCTCC
 TTATACCAGGTCCCAAGCCACTCGTTTTCCGTTGGCATCAACCAGCTCCTTTTTGACAAGCA
 GCAGACATGGGCAATAGATAATGTCTATATCGGGGATGGCTGCATAGACATGTGCAGTGG
 CCATGGGAGATGCATCCAGGGAACTGCGTCTGTGATGAACAGTGGGGTGGCCTGTACTG
 TGATGACCCCGAGACCTCTCTTCCAACCCAACTCAAAGACAACCTTCAATCGAGCTCCATC
 CAGTCAGAACTGGCTGACTGTGAACGGAGGGAAATTGAGTACAGTGTGTGGAGCCGTGGC
 GTCGGGAATGGCTCTCCATTTCACTGGGGGTTGTAGTCGATTATTAGTCACTGTGGATCT
 AAACCTCACTAATGCTGAGTTCATCCAATTTTTACTTTCATGTATGGGTGCCTGATTACACC
 AAACAACCGTAACCAAGGTGTTCTCTTGGAATATTCTGTCAATGGAGGCATTACCTGGAA
 CCTGCTCATGGAGATTTTCTATGACCAGTACAGTAAGCCCGGATTTGTGAATATCCTTCT
 CCCTCCTGATGCTAAAGAGATTGCCACTCGCTTCCGCTGGTGGCAGCCAAGACATGACGG
 CCTGGATCAGAACGACTGGGCCATTGACAATGTCTCATCTCAGGCTCTGCTGACCAAAG
 GACCGTTATGCTGGACACCTTCAGCAGCGCCCCAGTACCCAGCATGAGCGCTCCCCTGC
 AGATGCCGGCCCTGTGGGAGGATCGCCTTTGACATGTTTATGGAAGACAAAACCTTCAGT
 GAATGAGCACTGGCTATTCCATGATGATTGTACAGTAGAAAGATTCTGTGACTCCCCTGA
 TGGTGTGATGCTCTGTGGCAGTCATGATGGACGGGAGGTGTATGCAGTGACCCATGACCT
 GACTCCCCTGAAGGCTGGATTATGCAATTCAAGATCTCAGTTGGATGTAAGGTGTCTGA
 AAAAATTGCCCAGAATCAAATTCATGTGCAGTATTCTACTGACTTCGGTGTGAGTTGGAA
 TTATCTGGTCCCTCAGTGCTTGCCTGCTGACCCAAAATGCTCTGGAAGTGTCTCAGCC
 ATCTGTATTCTTTCCAACCTAAAGGGTGGAAAAGGATCACCTACCCACTTCCTGAAAGCTT

FIGURE 1 (CONT'D)

AGTGGGAAATCCGGTAAGGTTTAGGTTCTATCAGAAGTACTCAGACATGCAGTGGGCAAT
 CGATAATTTCTACCTGGGCCCTGGATGCTTGGACAACTGCAGGGGCCATGGAGATTGCTT
 AAGGGAACAGTGCATCTGTGATCCGGGATACTCAGGGCCAACTGCTACTTGACCCACAC
 TCTGAAGACTTTCTGAAGGAACGCTTTGACAGTGAAGAAATCAAACCTGACTTATGGAT
 GTCCTTAGAAGGTGGAAGTACTTGCACTGAGTGTGGAATTCTTGCCGAGGACACTGCACT
 CTATTTTGGGGGATCCACTGTGAGACAAGCGGTTACACAAGATTTGGATCTTCGAGGTGC
 AAAGTTCCTGCAATACTGGGGGCGCATCGGTAGTGAGAACAACATGACCTCTTGCCATCG
 TCCCATCTGCCGGAAGGAAGGCGTGCTGTTGGACTACTCTACCGATGGAGGAATTACCTG
 GACTTTGCTCCATGAGATGGATTACCAGAAATACATTTCTGTTAGACACGACTACATACT
 TCTTCCTGAAGATGCCCTCACCAACACAACCTCGACTTCGCTGGTGGCAGCCTTTTGTGAT
 CAGCAATGGAATTGTGGTCTCTGGGGTGGAGCGTGCTCAGTGGGCACTGGACAACATTTT
 GATTGGTGGAGCAGAAATCAATCCCAGCCAATTGGTGGACACTTTTGATGATGAAGGCAC
 TTCCCATGAAGAAAACCTGGAGTTTTTACCCTAATGCTGTAAGGACAGCAGGATTTTGTGG
 CAATCCATCCTTTACCTCTATTGGCCAAATAAAAAGAAGGACAAGACTCACAATGCTCT
 CTCCTCCCAGAACTCATTATACAGCCAGGATACATGATGCAGTTTAAAATTGTGGTGGG
 TTGTGAAGCCACTTCTTGTGGTGACCTTCATTCCGTAATGCTGGAATACACTAAGGATGC
 AAGATCGGATTCTTGGCAGCTCGTACAGACCCAGTGCCTTCCTTCCTCTTCTAACAGCAT
 TGGCTGCTCCCCTTTCCAGTTCCATGAAGCCACCATCTACAACCTCTGTCAACAGCTCAAG
 CTGGAAAAGAATCACCATCCAGCTGCCTGACCATGTCTCCTCTAGTGCAACACAGTTCCG
 CTGGATCCAGAAGGGAGAAGAACTGAGAAGCAAAGCTGGGCAATTGACCACGTGTACAT
 TGGAGAGGCTTGCCCCAAGCTCTGCAGCGGGCACGGATACTGCACGACCGGTGCCATCTG
 CATCTGCGACGAGAGCTTCCAAGGTGATGACTGCTCTGTTTTTCAGTCACGACCTTCCCAG
 TTATATTAAAGATAATTTTGGAGTCCGCAAGAGTCACCGAGGCAAACCTGGGAGACCATTCA
 AGGTGGAGTCATAGGAAGTGGCTGTGGGCAGCTGGCCCCCTACGCCCATGGAGACTCACT
 GTACTTTAATGGCTGTGAGATCAGGCAAGCAGCTACCAAGCCTCTGGATCTCACTCGAGC
 AAGCAAAATCATGTTTTGTTTTGCAAATTGGGAGCATGTGCGAGACGGACAGCTGCAACAG
 TGACCTGAGTGGCCCCACGCTGTGGACAAGGCAGTGTGCTGCAATACAGCGTCAACAA
 CGGGATCACCTGGCATGTCTATCGCCAGCACAGCCAAAGGACTTCACACAAGCTCAGAG
 AGTGTCTTACAATGTCCCCCTGGAGGCACGGATGAAAGGAGTCTTACTGCGCTGGTGGCA
 ACCACGCCACAATGGAACAGGTCTATGATCAATGGGCTTTGGACCATGTGGAGGTCTGTCT
 TAACAGCACTCGAAACAAAATTACATGATGAATTTTTTACGACAACATGGGCTCAGACA
 TTTCTACAACAGAAGACGAAGGTCACTTAGGCGATACCCATGAAGAATCAAAAAGTTTAT
 TTTTTTTCTTCCAACATGTGATGTGTTGCTCTCCATTCTTTTAAATCTCGCACTACATCT
 GATATCAGGAAATATCTGTGAAGGACTTGGTGATTACCTGAAAGCCCTTCTCAAGACCGA
 GTGTACACCACTTTCCCACTGTGAACTAATGACAAGTGACTTATTTGCTCATAAGTAA
 ATGTCTTCATGTTGATGTGTCCGTGAAAGTTGTGATCTGTTGTAATATCAGTTACAGTGG
 CAGTATTGACAATAAGAAACAGTTTAAACAGAAAAATGAAATTTAAGCAGAAAAAATTTAA
 GAGATTTTATGTTTTAAATGGCATTTAGCACAGTATTTAACATTCTTGGTCACAAAGCTA
 TTTAAGTGGACTGTATTTTCGGCTATGTCTCATGTTTTATATGATTAAATTATCATTGTTT
 GTCCTTTATGTATTCTCTTCTACAATACAACACATTGAAACTGTATTTACTTGTTATGTT
 GTAATATTTTGTGCTGAATTTGGGGCTACTTATATTCTGCAGAAAATTAATTGAAATAC
 CTATTCAAGAAGATAGTTGTAAAGATATTGTATCTCCTTTAATATACTCCTTAAAAATGT
 ATGTTGGTTTTAGCGTTGTTTTGTGGATAAGAAAAATGCTTGACCCTGAAATATTTTCTAC
 TTTAAATTGTGGATGAAGACCCTATCTCCCACAAATAAGTTCCCATTTTCTTGTCTAAAG
 ATCTTTTTTTAAGTGTTCTGTGGCTGATTTACTAACAGTAACTGCCATTTTTTGTCTGTG
 ATAACAGAGTGATTTGTAAAAACAGTGGTTGTTTTTTCATTGTGTTTTCTTCGTGGATTGT
 TTTTTCTGCGGGTCATATTCATACCTTCTGATGAAGTTGTACAACACCAGCAACATTATA
 ATGGCCCTGTAGCTCTGAATGCTATTTGTGTAAGTGAAGGTTGCACTCTAGGGTGAACC
 AAGCTATAAAAGCCCATGCTTAAATAAAAATTATGTCCAAAAGCC

Gene 690. >OTTHUMT00007006602 cDNA sequence

AAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
 GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
 CAGCGAGTGTACCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCCT
 GGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTGTTGAAAGGAAGAGGGAGTGGTGG

FIGURE 1 (CONT'D)

GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCTGAGCCTGAG
GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTATT
AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAAGCCGGGCGGCCTCCCCTCCTGGCAATACCAACGCATTTCATTTC
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACCCCAACAAAAC
ATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCCTTGGTCCGTAACCGTCGG
TTCCAGTTATGCCGTTGCTTGAACCCGAGGGCCAGGAAGAACCGCTCTCAGATAGCCCTG
TTCCAGAACTTCGGTTCCATGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGG
GCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCGGAAGTATCGGTTTCACTTCTTTTGT
TCCATGCGCTGCAGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGAC
CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCCACCTTTCC

Gene 691. >OTTHUMT00007006603 cDNA sequence

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGAGGGGAAGAACCTTCCCGCCAAG
GACATCACTGGCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATC
AGGTACCGCCCCACCCCGAGGACCGAGGGGCGCTCAGCCTCTCATCGGCCCGCGCTCTC
CCCGCAAAGGGGACAGCCACAGTGTGGAAGACCTGTGCCCCCTTCTGGGGTGAGGAGTAC
CAAGTGCACCTGCCGCCACCTTCCACGCTGTGGCTTTCTATGTATGGATGAGGATGCC
CTCAGCCGGGACGACGTTATCGGAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCAC
CCTAAGGGTTTTCAGCGGGTGGGCCCACCTGACAGAGGTGACCCCGACGAGGAGGTGCAG
GGCGAGATCCACCTGCGGCTGGAAGTGTGGCCAGGGGCCCCGGGCTGCCGGCTACGCTGC
TCTGTGCTGGAGGCCAGGGATCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTC
GTCCGAGTGCCTACAAGGGCCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTAC
CCACGCTGGAATGAGACGTTTGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGC
GTGGAGGCCTGGGACTGGGACCTTGTTCAGCCGAAACGACTTCTGGGCAAAGTGGTGATT
GATGTCCAGAGACTGCGGGTGGTGACAGGAGGAGGGCTGGTTCCGGCTGCAGCCCGAC
CAGTCCAAGAGCCGGCGGCATGACGAGGGCAACCTGGGCTCCTTGCAGCTGGAGGTGCGG
CTGCGGGACGAGACGGTGCTGCCCTCCAGCTACTACCAGCCACTGGTGCACCTGCTGTGC
CACGAGGTCAAGCTGGGCATGCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACA
ACCAGCACCGAGTGTGCCAGGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAG
GGGCTGGCCAAGGACTTCTGGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAG
ACCAACACCTGTTCCGGAGCAACTCTCTGGCCTCAAAGTCCGTGGAGTCTTTTCTGAAG
GTGGCCGGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAG
GAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGGAAAGTTAAGGATGTAGGGTGCTCC
GGGCTGCACCGCCCGCAGACCGAGGCGGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGC
GCCACCTGGGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCTCCGCGTG
GTGCGCGCCACCTTCCGCCAGCTCTTCCGGCGCGTGCAGCGAGCGCTTCCCGGCGCCAG
CACGAGAATGTACCGTTTCATCGCCGTACCAGCTTCTGTGCCTGCGCTTCTTCTCTCCC
GCCATCATGTGCGCCAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACACAGC
CGCACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGGACACGCGGGCT
TCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCACCGTGCACAGGGCGTGGCG
CAGCTGAAGGACTTCATCACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTG
CAGCGGACGCTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCACAGG
ACCAAGGGCAAGGGCCCCCTCATGTCTCTCTCTCAAGAAGCTCTACTTCTCCCTCACT
ACCGAGGCCCTCAGCTTTCGGAAGACGCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTA
GCCAACATCCGGGCAGCGGAAAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTCATG
CAGGTTCATCTACACGGACGACGCCGGCAGGCCCCAGACTGCCTACCTGCAGTGCAAGTGT
GTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGA
CTGCTGGGCTCCTACACCTTGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCA
AAAGAGAAGACAGGTGAGGGCTGCGATAAGACCCGGTACGGGTGACCTGCAGGAGTGG
AATGACCCTCTTGACCATGACCTTGAGGCCAGCTCATCTACCGGCACCTGCTGGGCGTG
GAGGCCATGCTGTGGGAGAGGACCGGGAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTG
CCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAG
GACCTCCGCGAGGCCCATAGCTCCAGCCCGGCGGCTCCCCACCTCAGAGCCCAACTGC

FIGURE 1 (CONT'D)

CTCCTGGAGCTGCAGACG

Gene 692. >OTTHUMT00007006613 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTTCATCCACAGCGGTCACTTCATGGTGTCTGTCGCCGCACAGCGACTCGCTGCCCCGG
CGGCGCGACACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGTCTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTC
CTGGAGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCCGCCGAGCAATGGTGTCAAACAGCTCTTCTCCAGT
GTGGTCCCCGTGCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTTGTCCGACATCTCAGACACTCTCTTCACCATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCCTCCACAGCCGCCCATGCCTTCAAACCTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGGACTCCAGCGCCTTCTGAGTTCTGATTTCTCCTCCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCCACCTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACCTCCCTTCCCTCCCATGGCACCACCCACTGCTTTG
CTGCAGGAAGAGCCTCTCTTCTCTCCAGGTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCCAACCCACCCACAGTCTGTCCCCAGC
CCAGCCCCCACCCTTCCCCATAGAGCTTCTACCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAAC
AACCCTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCCGCAGGAGACAGTCCCTGAATTC
CCCTGCACATTCTTCCCCCGACCCCGGCCCCCTACACCGCCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCA
GCGCCAGCGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGG
ACTCTGAGCGTCCGTGTCTCTCCCCCGCAACCCATCCTCAGCCGGGGCCGTCCAGACAGC
AACAAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAG
CTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCAGCCTCAAG
GAGCGTGCGGGCTTGACAGGAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAAT
GCCGCCATTAACTGTGCCAGCAGCAGCTGCCCGCCACAGGGGTACCCATCACACACCAG
CGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGTACGCTGCACAAC
TGGAAGTTCTGGGTGTTTACGATCCTCATCCGGCCTCTGTTTGAATCCTTCAACGGGATG
GTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTAC
TGCTCTCTGCCCGCTCTCCGGCCAACCTGTCTGAACTCCCTACGCCAGCTGGGCACATCT
ACCAGTATCCTGACCGACCCGGGCCGATCCCTGAGCAAGCCACAGGGCAGTCACAGAG
GGCACCTTGGCAAACCTTTATAGTCCTGGCCAGACCCTGCTGCTCACTCAGCTGCCCTG
GGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCCCTGCC
CAGGCCCTGGCTCTGCCCTTCCCTGGGGGTGGAGCAGGGTCCAGGTTTCACTTGGCA
CCTCCTGGAGGTCAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCAC
CGTGACCTTGGGTGACTCGTCCGCTGTCTTTGGACCGCTGTGTTTCAATCTGCAAAATGG
GGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTGTGACATTGGGGG
CCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTGTCA
CCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTTCTGAGCAGAGAAGCAGAA
AAGGAGGTTCCCTCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTC
CCCTGGGAGAGGCCAGGAGGGCCTGATCCCAGGAGACACCAGGGCCAGAGTGACCACAGC

FIGURE 1 (CONT'D)

AGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGTGGGTTTTGTAAAGAAT
TCTTGACCAATAAAAGCAAAACTGTCTGCTGGTT

Gene 693. >OTTHUMT00007006614 cDNA sequence

CCTGCCGAATCAATTCAACATGGCAGCCATGCGCTGGCGATGGTGGCAGCGGCTGTTACC
TTGGAGGTTGCTGCAGGCCCGTGGCTTTCCACAAAATTCTGCACCCAGCCTGGGCCTAGG
AGCGAGGACTTATTTCCAGGGCGACTGCTCGTATTTCGCGCACGGCGCTGTATGATCTGCT
CGGCGTCCCCTCCACAGCCACGCAGGCCCAAATCAAGGCGGCTTACTACCGTCAGTGCTT
TCTCTACACCCCGACCGCAACTCCGGGAGCGCGGAGGCCGCCGAGCGCTTCACGCGCAT
CTCCAGGCCTACGTGGTGTCTGGGCAGTGCCACCCTCCGTCGCAAGTATGATCGCGGCCT
ACTCAGCGACGAGGACCTGCGCGGACCTGGCGTCCGGCCCTCCAGGACGCCCGCACCCGA
CCCCGGCTCGCCGCTACCCCGCCGCCACCTCTCGGACCCACGACGGTTCTCGGGCCTC
CCCCGGCGCAACCGCACGATGTTCAACTTTGACGCCTTCTACCAGGCCCACTACGGGGA
ACAACCTGGAGCGGGAACGGCGCCTGAGGGCCCGCGGGAGGCCCTTCGCAACGGCAGGA
GTATCGGTCCATGAAAGGCCTCCGCTGGGAGGATACCCGAGACACGGCTGCCATTTTCCT
CATCTTTTCAATCTTCATCATCATCGGCTTTTTATATTTAATCGGAGAGAGAAGGGAAGGG
GAGTGTCCCCAGCCAACCCCCCAGAAACGGCCTTTTTTCTGCCTCTGAACCTTGGCCA
TTGATAGTCTACCTTTGCTGGGATCCGAAGGAAGTGTACTCCCCCTGCCCTCCCCGACCC
GCCCAGCTTAGCCGATGACCTGCACATCGCTCCACTGTGGTCCAGAAAAGGAGGCCTTTC
GATGTCTGAGAAAGAGGCCCCACGCTGTAGAGTCCCAGAAAGCCAGGAGTGAAGGGGTT
CCTGGAGTCTCTAGGGTGCTTCTTCAGAGTCTGTCTTCTTGCTTCCAGATGTGGTCAAC
TTCTGGAACACTCGCTGTAGCTTTATTGTTTAGCCCCAAGCAAGATTTATCTCCTCCTGC
CCCGCATGTGTATGGTGGGCCTCTGTAACCTTGAAATGTGCAATGTGACCAATTGTTGAC
TACCAAAAGAAAAGGTCTGGGGTTGTACGAAA

Gene 694. >OTTHUMT00007007275 cDNA sequence

AGGGGAGTGGGGTCTCTCAGCGTGAAAACAGGAGTCATTGTGAGCCTCGCTCCCCCAGCT
CTGCCTCCCATGACTGGCGTTTTTGGTTCTATTCTAATTTCTGCTGGGTT

Gene 695. >OTTHUMT00007006628 cDNA sequence

GGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATGCGAGCCGGCCAACAGCTTGCAAG
CATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGTGAGGGACTCGGCCCCACGGCCC
TAGCTTCGCGAGGGTGCTGTGCGACCCAGCAGCAGCAGCGGCGGCCGAGGGGGCGCCGA
GCCGAGGCCGCTTCCGCTTTCTACAGGCTTCTGGACGGGGAGGCAGCCCTCCCGGCCGT
CGTCTTTTTGACGGGCTCTTCCGCGAGCAAACTAACTTCAACTCCATCGCCAAGATCTT
GGCCAGCAGACAGGCCGTAGGGTGCTGACGGTGGATGCTCGTAACCACGGTGACAGCCC
CCACAGCCCAGACATGAGCTACGAGATCATGAGCCAGGACCTGCAGGACCTTCTGCCCCA
GCTGGGCCTGGTGCCCTGCGTCTGCTTGGCCACAGCATGGGAGGAAAGACAGCCATGCT
GCTGGCACTACAGAGGCCAGAGCTGGTGGAACGTCTCATTGCTGTAGATATCAGCCAGT
GGAAAGCACAGGTGTCTCCCACTTTGCAACCTATGTGGCAGCCATGAGGGCCATCAACAT
CGCAGATGAGCTGCCCCGCTCCCGTGCCCGAAAACCTGGCGGATGAACAGCTCAGTTCTGT
CATCCAGGACATGGCCGTGCGGCAGCACCTGCTCACTAACCTGGTAGAGGTAGACGGGCG
CTTCGTGTGGAGGGTGAACCTGGATGCCCTGACCCAGCACCTAGACAAGATCTTGGCTTT
CCCACAGAGGCAGGAGTCTACCTCGGGCCAACACTCTTTCTCCTTGGTGGAACTCCCA
GTTTCGTGCATCCCAGCCACCACCTGAGATTATGCGGCTCTTCCCTCGGGCCAGATGCA
GACGGTGCCGAACGCTGGCCACTGGATCCACGCTGACCGCCACAGGACTTCATAGCTGC
CATCCGAGGCTTCCTGGTCTAAGAGTTGCTGGCAAGAAGATGGCCGGGCGTGGTGGCTCA
TGCCTGTAATTCCAGCACTTTGGGAGGCTAAGGCGGGAGGATGACTTGAGGCCAGGAGTT
GGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCC
TGGCGTGGTGGTGCACACCTGTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCAC
TTGAACCTGGAGGCAGAGGTTGCAATGAGCCGAGATCACACCACTACACTCCAGCCTAG
GCAACAGAGCAAGACTCTGTCTCAAAAAAACAACCAAAAGGAGGCACAAAACCCAG
GCTTCAAGTCTCTGCAGCCTGCTCCACATTTGGGCACAGAAGGACTCAGACAGGCACTGT
GTGGGCACGAGGTTTTACAGGGGTGGTCAGACCTCAGGCTTTAATGAATAAAGACACTAC
TCCAAA

Gene 696. >OTTHUMT00007006630 cDNA sequence

GTGCTGCTGAGGCGTGAGAATGGCGTCCCGCGGCCGCGTCCGGAGCATGGCGGACCCCC

FIGURE 1 (CONT'D)

AGAGCTGTTTTATGACGAGACAGAAGCCCGGAAATACGTTGCAACTCACGGATGATTGA
TATCCAGACCAGGATGGCTGGGCGAGCATTGGAGCTTCTTTATCTGCCAGAGAATAAGCC
CTGTTACCTGCTGGATATTGGCTGTGGCACTGGGCTGAGTGGAAGTTATCTGTGAGATGA
AGGGCACTATTGGGTGGGCTGGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACCG
AGAGATAGAGGGAGACCTGCTGCTGGGGGATATGGGCCAGGGCATCCCATTCAAGCCAGG
CACATTTGATGGTTGCATCAGCATTTCTGCTGTGCAGTGGCTCTGTAATGCTAACAAGAA
GTCTGAAAACCTGCCAAGCGCCTGTACTGCTTTTTTGCTTCTCTTTTTCTGTTCTCGT
CCGGGGATCCCGAGCTGTCTGTCAGCTGTACCCTGAGAACTCAGAGCAGTTGGAGCTGAT
CACAACCCAGGCCACAAAGGCAGGCTTCTCCGGTGGCATGGTGGTAGACTACCCTAACAG
TGCCAAAGCAAAGAAATTCTACCTCTGCTTGTCTTTCTGGGCTTCGACCTTTATACCAGA
GGGGCTGAGTGAAAATCAGGATGAAGTTGAACCCAGGGAGTCTGTGTTACCAATGAGAG
GTTCCCATTAAGGATGTGAGGCGGGGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGA
GAAGAAGGAGCGGCACAGGCGCCAGGGCAGGGAAGTCAGACCTGACACCCAGTACACCGG
CCGCAAGCGCAAGCCCCGCTTCTAAGTCACCACGCGGTTCTGGAAAGGCATTGCCTCTG
CACTTTTCTATATTGTTTCAGCTGACAAAGTAGTATTTTAGAAAAGTTCTAAAGTTATAAA
AATGTTTTCTGCAGTAAAAAAAAGTTCTCTGGGCCGGGCGTGGTGGCTCACACCTGTAA
TCCCAGCACCTTGGGAGGCTGAGGTGGGAGGATCATTTGAGGCCAGGAGTTTGAGACCTG
CCTGGGCAACATAATGAACTTCCTTTCCAGGGAGGAAAAAAAAAAAAAAAAAAGCTCT
GAGAGCATCTTATTTTGTAAAGGCAAGAAATAAAATTTCTTTTGTGGA

Gene 697. >OTTHUMT00007006631 cDNA sequence

CACTTGTAATCCTAGCACTTGGAAGGCTGAGACAGGAGGATCACTTGAGGCCAGGAGTT
TGAGACCAACCTGGGCAATATAGTGAGACCTATTTCTACAAAAATAAAATAAATAGCC
AGGCCTGGTGGTATGCACCTGTAGTCCTAGCTACTGAGGAGGCTGACGGAGGAGGATCAC
TTGAGCCCAGGAATTGGAGGCTGCAGTGAGCTATGATCACGCCACTGCACTCCAGCCTGG
GCGACAGAGCCAGACCTATCTCTGAAAACAATAATAAAACGACAACCAATGCTGACTGT
GTCTCCATCACTGGGTGGGGCTGAGGAAGCAGGCCTCAGAAAGGAAGCCAGTTTTCCCCC
AAAATTATTCCTGAGGCTGCCTCTGGGCCTGTGGATCCAGATGTGTGGGGGCCTTCAGG
AGTGGCAGGGGAGTGGGGCTCCAGCGTGAAAACAGAAGTCACCGTCAGCCTTGACCCCC
CGGCTCTGCCTCCCAGGACTGGTGTCTTTGCTCTGTTTTAATTTCTGCTGGGTCTCTCC
CTTGACATTGTGTCAGGTATGCAGGCTGGGACATCCCTTCTTTCTCTACATTCCCCCTA
GAGCCCAAGGCTCTGTCCGTGGTCCAGCCACTCCATGGCAGGGAAGCTGTACCTCCATAA
TCAGCTGCCTGAGGGCCCCCTGACCCACCACCAGGCACCACCCTGGTGGGGCTGAGGTAG
AAGGGAAAGAATGCCAGAACTCCAGTCCTGGAGGCAGGAGAGTGTGTGAGCCCAGCCCCG
CCCTCTCAGACTCTCAGACCTTTATTTTCATCCTCATTTTCTGGCTAGAGGTTCCATGCA
TCATTTTTTTTTTTTTTTTTTTTTTTCAGATGGAGTCTCACTCTATTGCCAGGCTGGAGTGCA
GTGGTGCTATGTCCGCTCACTGAAACCTCCGCCTCTCAGGTTCAAGCAATTCTCCTGCCT
CCGCCTCCCAAGTAGCTGGGATTACAGGCATGCACCACCACACCTGGCTAGTTTTTGTAT
TTTTAGTAGAGACGGGGTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAG
GTGATCCACCTGCCTGGGCTTCCCAAAGTACTGGGATTATAGGCTTGAGCCACCACGCCC
GGCTGGTTCATGCATCTTACCTGGATGACTTGGGTCCCTAAATGGGCCCCCTGGGTGCCC
AGCCTCCCCTCCTCCAATACATTCTCTGATAATCTGACCTTGTGATGACATTGGGGCAC
CTGTTGCCCACAGGGTAGAGGCCAGGTGCCTGAGGACAGCACTGAAGGCCGTGCACCTCC
ACCTCCAGCCTCCAGTCACCTACCTAGCTCACTGCTCTCTCTCCTGCAAAGTCTCTCCT
GCTTCCCTCCCTAAGGGAAGGGCTGGCCGCTCACTGCTTGGGCCCCCTTGATTTCTAAGA
CACCTGTGAAGGGTCCCAAGGCCAGGCACAGTGGCTCTTGTCTGTAATCCCAGCGCTC
TGGGAGGCTGAGGCAGGAGGATCACTTGAGGTGAGGAGTTCAATGTGGACAACACAGTAA
GACCCTGTCTCTACAAAAAATTTAAACTTAGCTGGCATTGGTGGCGCATGCCTATAGT
CCCAGCTACTTGGGAGGTTGAGGTAGGAGGATCGCTTGAACCCAGGAGTTCAAGTCTGCA
GTGAGCTATGATTGCACCACTGCACTCCAGCCTGGGTGATAGAGCAAGACCCCAACTCAA
AAAAAAAAAAAAAGGATCCACGGTTACCTTGTGCTGCCACGATCGGTTGGCAGCTCTGC
TCTGTGCCGTCTGTGCCTGTCACTGAGTAAGATGCAGGAGAAGTTGGGCAAAAGCCCTC
AGGATAAACGAATAAGTCATTGAGGTAGGTGCTGGTGGGAAATGGGCTTGAGTCACTCA
CCTGGGGCCAGAAGAGGCCCCAGGGAGTTGTGAGCAGATTAGACCCTCCAAGACCGCCC
CAGGGGTTGGCCCATGCTTTCCCTAACTGTGCAAAAATGGTTTGGGATAGGCTGGGTGCC

FIGURE 1 (CONT'D)

GTGGGTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATCACCTCAAGT
CAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAGA
AATTAGCTGGGTGTGGTTGCACACGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGGAGG
AGAATCCCTTGAACCCGGGAGGCGGAGGTTTCATGGGGAACCCAGCAGGAAATTAGAATAG
AACCAAAAACGCCAGTCATGGGAGGCAGAGCTGGGGGAGCGAGGCTGACAATGACTCCTG
TTTTTCACGCTGAGAGACCCCACTCCCCTGCTGAGATCGCGCCACTGCACTCCAGCCTGGG
CGACAGAGCAAGACTCCATCTCAAAAAAAAAGTTAATTAATTAATTAGATTAAAGTACAA
CAATTAGCAGGGCATGGTGGTGCACGTCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAG
AAGAATCGCTTGAACCCCTGGAGGCGGAGGTTGCCGTGAGCCAAGATCGCACCCTGCACT
CCAGCCTGGGCGACAAAGTGAGACTCTGTCTCAAAAA

Gene 698. >OTTHUMT00007006642 cDNA sequence

AGGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCT
GATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCT
TTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCC
TACCAGAGACTCACCAATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGCATTTTCA
CGCATCTCACACTCCTCTGCACTCTCAACTTGGAGAGCTCCAAACAGGGAAACCCCAAGC
CTTGCTGGCTTCTGCCAACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACCTCAC
CACCTCATCCTGATCTCACTGTACACTCCCTTTCTGGTCTGCTAAGTAGCGGGTGTTT
TTCCTTGACACTAACGCTACAGCTAGACCACGGTGGGCTTGGCAACAGGTGTCTTCCAG
ATGCTGGCGTTACCGCTAGACCAAGGAGCCCTCTGGTGGCCCTGTCCGGGCATAACAGAA
AGCTCGCACTCTTGTCTTCTGGTCACTCCTCATTGTCCCCTCAGCTCCTATCTCTGTATG
GCCTGGTGTCTTCTAGGTTATGATTGTAGAGCGAGGATTATTATAATATTGGAATAAAGA
ATAATTACTACAACTAATGATTAATGATTATATATAATCATATCTAAGATCTATATCT
AGTATAACTATTCTTATTTTATATATTTTATTATACTGGAACAGCTCGTGCCCTCGGTCT
CTTGCCCTCGGCACCTGGGTGGCTTGTGCCCACATCCACCAAGTGCACTTTGGGAGGCTG
AGGCTGGAGGACTGCTGGAGGCCAGGAGTTCAATACCAGCCTGGGCAACATAGGGAGACC
CCCCCCCCCACCATCTC

Gene 699. >OTTHUMT00007006643 cDNA sequence

AGGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCT
GATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCT
TTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCC
TACCAGAGACTCACCAATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGCATTTTCA
CGCATCTCACACTCCTCTGCACTCTCAACTTGGAGCGCTCCAAACAGGGAAACCCCAAGC
CTTGCTGGCTTCTGCCAACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACCTCAC
CACCTCATCCTGATCTCACTGTACACTCCCTTTCCCGGTCTGCTAAGTAGCGGGTGTTT
TTCCTTGACACTAACGCTACCGCTAGACCACGGTGGGCTTGGCAACAGGTGTCTTCCAG
ATGCTGGCGTTACCGCTAGACCAAGGAGCCCTCTGGTGGCCCTGTCCGGGCATAACAGAA
AGCTTGCACTCTTGTCTTCTGGTCACTCCTCACTGTCCCCTCAGCTCCCATCTCTGTATG
GCCTGGTGTCTTCTAGGTTATGATTGTAGAGCGAGGATTATTATAATATTGGAATAAAGA
ATAATTACTACAACTAATGATTAATGATTATATATAATCATATCTAAGATCTATATCT
AGTATAACTATTCTTATTTTATATATTTTATTATACTGGAACAGCTCGTGCCCTCGGTCT
CTTGCCCTCGGCACCTGGGTGGCTTGTGCCCACATCCACCAAGTGCACTTTGGGAGGCTG
AGGCTGGAGGACTGCTGGAGGCCAGGAGTTCAATACCAGCCTGGGCAACATAGGGAGACC
CCCCCCCCCCCCCA

Gene 700. >OTTHUMT00007006649 cDNA sequence

GCCCCGCAGGTCAAAGAGCAGCTGATTAAGCACAATATCGGACAACGTATTTTCGGACAT
TATGTGTTGGGACTGTCTCAAGGGTCCGTGAGCGAGATTCTGGCCCCGGCCCAAGCCATGG
AATAAACTGACTGTTTCGTGGCAAGGAGCCATTTTACAAGATGAAACAGTTCTCTCCGAT
GAGCAGAACATCCTGGCCCTCCGTAGCATCCAAGGCAGACAAAGAGAGAATCCAGGCCAG
AGCCTGAACAGACTATTTTCAAGGAGTACCGAAACGAAGAAATGGGTCTGAAGGTAACATC
ACCACCCGGATCCGAGCCTCGGAGACTGGCTCTGATGAAGCCATCAAGTCCATCCTAGAG
CAAGCCAAGAGGGAGCTCCAAGTGCAAGAACTGCAGAGCCGGCCCGCCTTCTCCGCA
TCCGGCAGCGGGAACCTCTGATGACGCCATCCGCTCCATCCTGCAGCAAGCCCGCCGGGAG
ATGGAGGCCAGCAGGCTGCCCTCGACCTGCCTTAAAGCAGGCACCACTGTCCAGAGT

FIGURE 1 (CONT'D)

GACATCACCATCCTCACCCCCAAGCTTCTGTCCACCTCGCCCATGCCCACCGTGTCCAGC
TACCCACCTCTCGCCATCTCCCTGAAGAAGCCCTCCGCAGCTCCTGAGGCCGGTGCCTCT
GCTCTGCCGAACCCCCCGGCCCTCAAAAAGGAGGCCAGGACGCCCCCGGGCTGGACCCC
CAGGGAGCAGCCGATTGTGCACAAGGGGTCTGAGACAGGTGAAAAATGAGGTGGGCCGC
AGCGGTGCCTGGAAGGACCACTGGTGGAGCGCGGTGCAGCCGGAGAGAAGAAATGCCGCC
TCCTCCGAGGAGGCCAAGGCCGAAGAAACGGGCGGCGGGAAAGAGAAGGGCAGCGGTGGC
AGCGGAGGTGGCAGCCAG

Gene 701. >OTTHUMT00007006660 cDNA sequence

ATGCAGAGCGACGTTTGTGGGCGCGGCCCTCTCCACCCCTTACCGCTGGGGGCAGCTC
CCAGGGCGGGTCACTGCCGCGTGCCTCGCAGATCAGACAGGTCCGGATGCCCTTGCA
ACCGCATTCCCGAAGGACTTCGGGGGTCTCGGCGGCAGCCGCCCATCGCGCCGTCCGC
GTGGCCACCGCGGACGCCAGTGCCGGGTCCAGGAGACGCAGGGCGACGCCACACGCCGG
GGTGGCCGACTGGGTGAGCGCGGGTGCCTCTCGCCATGGGCCCCCTCTCGGCGCGG
CTGCTAATGCAGCGCGGGCGCCCCAAGAGCGACCGGTGGGGAAGATCCGGAGTCTGCTG
TCAGGATTGGAGCTGCTTTCGAGCACCTGGACCCCAAACTCCTGTGCCGCTGACGCAG
CTGCAGGAGCTTGACCTGTCTAACAACCACCTGGAGACGCTGCCGGACAACCTGGGCCTG
TCCCACCTGCGTGTCTCCGCTGCGCCAACAACAGCTGGGGGATGTTACTGCCTTGTGC
CAGTTCCCAAGCTCGAGGAACCTCAGCCTGGAGGGCAACCCCTTCTGACGGTCAATGAC
AACCTGAAAGTCTCCTTCTCCTGCCACGCTCCGTAAGGTCAATGGCAAGGATGCGTCC
TCAACTTACTCTCAGGTGGAGAACCTGAATCGGGAGCTGACCAGCAGGGTCAAGCTCAC
TGGGAGAAGTTTCATGGCCCACTGGGTCTGAAGAGGAGGCTGAGAAGGCCAGGCGGAC
TTTGTGAAGTCGGCTGTGAGGATGTCCGCTACGGGCCCCGAGTCCCTCAGCGAGTTCACC
CAGTGGCGGGTGCGGATGATCTCTGAGGAGCTGGTGGCCGCCAGTAGGACCCAGGTGCAA
AAGGCTAACAGCCCAGAGAAGCCCCCAGAAGCTGGAGCTGCCACAAGCCCAGGGCCAGA
CTGGCGGCCTTGAAACGGCCAGACGACGTCCCACTCAGCCTCTCTCCAGCAAGCGGGCG
TGTGCCTCCCCGTGCGCCAGGTGGAGGGCAGCCCTGTGGCAGGCTCCGATGGCAGCCAG
CCTGCTGTGAAGCTGGAGCCCCCTGCACTTCTGTCAGTGCCACAGCAAGAACAACAGCCCC
CAGGACCTCGAGACCCAGCTGTGGGCCTGTGCCTTCGAGCCGGCCTGGGAGGAGGCCACA
TCCCAGACCGTGGCCACGTGCGGCGGGGAGGCTGTGTGCGTAATTGATTGCCAGACGGGC
ATCGTGTCTCCACAAGTACAAGGCACCCGGCGAGGAGTTCTTTTCTGTGGCCTGGACCGCT
CTGATGGTGGTCAACAGGCTGGCCACAAGAAGCGCTGGAGTGTGCTGGCGGCTGCAGGC
CTACGGGGCCTGGTCCGGCTGCTGCACGTGCGTGCCGGCTTCTGCTGCGGGGTATCCGA
GCCACAAGAAGGCCATCGCCACCCTGTGCTTCAGCCCCGCCCACGAGACCCATCTCTTC
GCCTCCTATGACAAGCGGATCATCCTCTGGGACATCGGGGTGCCCAACCAGGACTACGAA
TTCCAGGCCAGCTGCTCACTGACACCACTCTATCCCCCTGCGCCTCTGCCCTGTC
GCCTCCTGCCCCGACGCCCCGCTGCTGGCCGGCTGCGAGGGCGGCTGCTGCTGCTGGGAC
GTGCGGCTGGACAGCCCCAAAAGAGGGTGTGTGAAGTGGAATTCGTCTTCTCTGAGGGC
TCCGAGGCATCTGGACGGAGAGTGGATGGGCTGGCATTGTGAATGAGGACATCGTGTCC
AAGGGGAGCGGCCTGGGCACCATCTGCCTGTGGAGCTGGAGGCAGACGTGGGGGGGCGG
GGCAGCCAGTCCACGGTGGCAGTGGTGGTCTGGCGCGGCTGCAATGGTTCGTCCACCGAG
TTGGCCTACTTCTCGCTCAGCGCCTGCCCTAAGGGGATTGTGCTCTGTGGGGATGAGGAG
GGCAACGTGTGGCTCTACGACGTGAGCAACATCCTGAAGCAGCCACCCCTGCTGCCGGCA
GCCCTGCAGGCCCCACACAGATCCTGAAGTGGCCCCAGCCCTGGGCCCTTGGCCAGGTG
GTGACCAAGACCATGGTGAACACAGTGGTGGCCAATGCCTCCTTCACCTACCTACCGCC
CTGACGGAATCCAACATCGTAGCCATCTGGGGGAGGATGTAG

Gene 702. >OTTHUMT00007006661 cDNA sequence

ATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACCGGCTTCAGTGTCCCATCTGCCTG
GAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACTCCTACTGCAAGGGCTGCCTG
GTTTCCCTGTCTACACCTGGACACCAAGGTGCGCTGCCCCATGTGCTGGCAGGTGGTG
GACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGGTGATCGAAGCCCTGAGGCTC
CCTGGGGACCCAGAGCCCCAAGGTCTGCGTGACACCGGAACCCGCTCAGCCTTTTCTGC
GAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGCTCCCAACACAC
CCGGTACGCCCCGTCTCCACCGTCTGCAGCCGCATGAAGGAGGAGCTCGCAGCCCTCTTC
TCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCATCGCCAACTGGTGAAAAAC

FIGURE 1 (CONT'D)

CGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGGTGATCCGCCGCGAGTTCAG
GAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCCTGGAGGGGATAGGGGGTAC
ACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCAGGGAACCCGGGAG
CGGCTGGCCCAAGCCGAGTGTGTGCTGGAAAGTTCCACTCCATGGCCTCCACCAGTCATC
ACTTCCACAGGGATGACTCAGAAGTTCCCTCTCCGGGAGACCCGTCCCTTACAGGCCACA
TCCAGTAGCGCTCCAGCCATTTCAGCAGCTCCGCCTGGACGTCAAGGGCATGTCCAAAACC
GCGCTCATGATCTTCTACTCCCCCATCCCTGA

Gene 703. >OTTHUMT0000700666 cDNA sequence

ATGATGATGATAAAGGCTGTGACCATAGATAAACTGCAGGGAAGTTCTGTTACTGTATCT
ACCGAAGATGGGTTGCTGAAAGCCAAGTATCTTTATACAGAATCATCATTTCTGTCTTCT
GCTGCTGGGGATATTACATTAGGAAGTGTTCATAATATAACATTACAAAGCGAGATGGGT
AACATCACAGTATCGTCTTCTGGATGTCTAAAAGCCTCAACTAATCAGGGTGCCATAGAT
GTTTATGTGAGCCAACTGGGGAAAGTGGAAATTGAAATCCCATAAAGAACGCGGCTCCTCA
CCAGTAACGGAACAAAGCTGGATGGAGAATGACTTTGACGAGTTGAGAGAAGAAGGCTTC
AGACAATCAAATACTCTGAGCTAAAGGAGGAAGTTTGA

Gene 704. >OTTHUMT0000700667 cDNA sequence

ATGTTGAGGAGCCTAGACTTAATTCTGAAGGTGATGAGGTCTTTGAAGGGTCTAAAGCA
ACACAAGAGTCAGAGGTCCAAGTGTACAGAATGCCAAACGTTTCACTGAGCAAATACAA
CAGCAGCAGTTTACCTGCAGCAAGCTGATAATTTTCCAGAAGCATTCTCCACGGAGGTCT
TCCAAAATGAGAGAACAACCTTCTCAAGTATCAAAATGAATATAATGCAGTGAAGGAAAGA
GAGTTCATAATCAGTACAGATTAAATAAAGCCATCTCATTGAGAGCTGCAGTCAGAGAA
CACACTCCACCAAACAGTTATTAGCATTCCCTTGCCCTTCCCCTGCCCTGGCAGTGGCC
CCCTCATCCCATGACTATAGCAGTACCAGAGCACGCATCTGCATGGAAATGGAGAAGAAG
ATGAAAATATTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTA
GAAATTAATAATTTACGAGAAGATTTGGCATCTAAACAAAAGCAATTATTAAGAGAGCAG
AAGGAACTAGAAGAATTGTTGGGACATCAGGTCTGCTTAAAGTTACCTCCTCTTCAAAAT
GATAACAAATATAGCTCTCTTACAAGGTGAGAAATGGAAAAGAAAAAATTGTCTTGGAA
CAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAAAAGGTTAGTGCTATA
GTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAACGAGCCTTACTTGAAATC
AAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGCCAGAGAGAATGAAGCA
ACTTCATTAAGTGAAGGGATCTTGATCTCAATTTACGCAACAGTCTCATTGACAAGCAG
AACTACCATGATGAACCTTCTCGTAAGCAAAGAGAGAAAGAACGAGATTTTCGAAATTTA
AGAAAGATGGAAGTCTCTTGAAAGTGTCTGGGATGCACTTAGGCAAACTCAAGCACTG
CATCAAAGGCTTCTATTAGAGATGGAAGCTATCCCCAAAGATGATTCTACATTATCTGAG
AGAAGGCGAGAGCTTCAAGGAAGTTGAAGTAGCTAAGAGGAATTTGGCCCAACAGAAA
ATTATATCAGAAATGGAGTCTAAGTTAGTAGAACAACAACCTTGCAGAAGAAAAAAGCTT
TTAAAGGAGCAAGAAAAATGAAAGAGCTAGTAGTCAACCTTCTCCGCATGACTCAAATC
AAAATTGATGAAAAGGAACAAAAGTCCAAGGATTTCTGAAAGCTCAGCAAAAATACACC
AACATTGTTAAAGAAATGAAAGCAAAGGATCTTGAAATCAGGATACACAAGAAGAAAAA
TGTGAAATTTATCGGCTGAGAGAGTTTGCTAAACTGTATGACACCATTGAAATGAAAGA
AACAAATTTGTTAACTTACTCCACAAAGCTCATCAGAAAGTAAATGAAATAAAAGAAAGG
CATAAAATGTCAATAATGAACTTGAAATCTGAGAAATAGTGCCGTTAGTCAAGAAAAG
CTACAAAATTCATGCTGAAACACGCCAACAATGTTACCATCAGAGAGAGCATGCAAAAC
GATGTGCGCAAAATTGTATCAAACTTCAGGAAATGAAAGAAAAGGAAGGCCAGTTA
AATAACATTGACAGACTTGCCAACACGATCACAATGATCGAAGAGGAGATGGTGCAGCTT
CGCAAAAGATACGAAAAGCTGTTGAGCATCGAAATGAAGGCGTTGAGCTGATAGAGCGG
GAAGAAGAAATATGCATTTTTTATGAAAAAATAAATATCCAAGAGAAGATGAACTAAAT
GGAGAAATTGAAATACATCTACTGGAAGAAAAGATCCAATTCCTGAAATGAAGATTGCT
GAGAAGCAAAGACAAATTTGTGTGACCCAGAAATTACTGCCAGCCAAGAGGTCCCTGGAT
GCCGACCTAGCTGTGCTCAAATTCAGTTTTACAGTGTACAGACAGAATTAAAGACCTG
GAGAAACAGTTGTAAGGCTGATGGTGAGAATAGAGCTCGCTTCTTCCAGGGAAAGAT
CTGACCGAAAAGAAATGATCAAAAATTAGACAAGCTGGAACATAAAGTGGCCAAGAAG
GAGGAGAAGCTGCTGGAGAAGGATTTATCTATGAGCAGGTCTCCAGGCTCACAGACAGG
CTCTGCAGCAAACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAAGAAGATGAAT

FIGURE 1 (CONT'D)

GGCTATCAAAGAAGGATCAAAAATGCAACTGAGAAAATGATGGCTCTTGTTGCTGAGCTG
TCCATGAAACAAGCCCTAACCATTGAACTCCAAAAGGAAGTCAGGGAGAAAGAAGACTTC
ATCTTCACTTGCAATTCCAGGATAGAAAAAGGTCTGCCACTCAATAAGGAAATTGAGAAA
GAATGGTTGAAAGTCCTTCGAGATGAAGAAATGCACGCCTTGGCCATCGCTGAAAAGTCT
CAGGAGTTCTTGGAAGCAGATAATCGCCAGCTGCCCAATGGTGTTTACACAACTGCAGAG
CAGCGTCCGAATGCCTACATCCCAGAAGCAGATGCCACTCTTCCTTTGCCAAAACCTTAT
GGTGCTTTGGCTCCTTTTAAACCCAGTGAACCTGGAGCCAATATGAGGCACATAAGGAAA
CCTGTTATAAAGCCAGTTGAAATCTGA

Gene 705. >OTTHUMT00007006304 cDNA sequence

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCGGCGCC
AGGAGGGGGTGCAGCCGGTGGGCAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCGAGAGGAGGAGGCCGGGCTCTCGGGCCTCCCGCGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCACCTGCCAGTGGCACCGCCATGCAGAAGCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGGACATCTACTGGGTGAGCTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACAGTCATCTGGACCC
TCCTCCTCCCGGCCGCGAGCTGCTGCCCCCGAGAAGCCGGGCCCCAAGGCGGCGGAAGTG
GGGGATGACTTCCTGGGGGACTTTGTGGTGGGCGAGCGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGAGTATCTGGGAGAGACGCAGTTTCGCACCGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCCTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTCACGCGGCCCTCCAAGCTGACCCGGCAGCCACGGCC
GAGGGCTCGGGGAGTGATGCCCACTCCGTGGAGTCGCTGACTGCCCAGAACCTGTCATTG
CATTTCGGGCACGGCCACGCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGCGTGCTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCGGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCCCTTGGAAGAATGATGGGGCGGTGGCGGGCACCAGTACTTCCAG
TGCCACCCAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCCA
TCTACCAGCCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCCTCCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTGGGCCAGCCGAGTGGCCTGCTCACGGAGACCTCTTCAGCTACGCCCAGGATC
TCGGGCACCAAGGCTTGCTGAGGAGGCACTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGGCTGCTCGTGGAGAGCGTGCAGAAAGAGAAGGTGGACCTG
TCCAACCAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGCAGTTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGACCCAGACGCAGCTGGAGCACGCGCGCATTGGG
GAGCTGGAACAGAGCCTGCTACTGGAGAAGGCGCAGGCCGAGCGGCTGCTCCGAGAATTA
GCGGACAACAGGCTGACCACAGTGGCCGAGAAGTCGCGCGTGCTGCAGCTGGAGGAGGAG
CTCACCTGCGCCGAGGTGAAATCGAGGAGCTCCAGCAGTGCCTGTTGCACTCGGGTCCC
CCACCTCCGGACCAACAGACGCGCCGAGATCCTGCGGCTACGGGAGCGGCTGCTCTCG
GCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGTGCGGGATAAATACGAGAAGGCCCTG
AAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGCACAGGAG
GTGGCGGGCCTGAAGGACAAGGTTTCAGCAGGCCACCAGCGAGAACATGGGGCTAATGGAC
AACTGGAATCCAAGCTGGACTCGCTGGCCTCGGACCACAGAAAGTCCCTGGAGGACCTC
AAAGCCACCTGAACTCGGGCCAGGCGCCAGCAGAAGGAGATCGGCGAGCTGAAGGCA
GTGATGGAGGGCATCAAGATGGAGCACCAGCTGGAGCTGGGTAACCTTGAGGCCAAGCAT
GACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGAGAGAAGCTGCAGGAG
GCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAGCTGGAGGTGCAAGCC
AGCCAGCACCGGCTGGAGCTGCAGGAGGCCAGGACCAGCGCCGGGATGCCGAGCTGCGT
GTGCACGAGCTGGAAAACTGGACGTGGAGTACCGGGGCCAGGCGCAGGCTATCGAGTTC
CTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTACGAGCGGCTGCAGCGG
GCAGAAGCCCAGGGCAAACAGGAGGTGAGAGTTTGGGGAGAAGCTCCTGGTGGCTGAG

FIGURE 1 (CONT'D)

AACAGACTCCAGGCGGTGAGGGCCCTGTGCTCCTCCCAGCACACCCACATGATTGAGTCG
AATGACATTTTCAGAGGAGACGATCAGGACGAAGGAACTGTGGAGGGCCTGCAGGACAAG
CTGAACAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCCAGACCGAGATGCTCAGGGCC
CAAGTAAGTGCCTGAGAGCAAGTGTAAGTCAGGCGAGAAGAAGGTGGACGCCCTCCTG
AAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCCGGAAGACCCATGACGCC
TCGGGCCAGCTAGTCCTCATCAGCCAGGAGCTGCTGCGGAAGGAGCGGAGCCTGAACGAA
CTGCGGGTGTGCTGCTGGAGGCCAATCGTCACTCCCCAGGGCCGGAGAGGGACCTGAGC
CGTGAGGTACACAAGGCTGAGTGGCGGATCAAGGAGCAGAACTCAAGGATGACATCCGG
GGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTGTGCGATCAGAGGCGC
TACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTGCAGCACAGCTGATG
AGCACGGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAGGTGGAGAAGCTGATG
GAGGCCATGAGGAGCTGCCCTGACAAGGCCCAGACCATCGGCAATTCCGGTTCTGCAAC
GGCATCCACCAGCAGGACAAAGCTCAGAAACAAGAGGACAAGCACTGATCCTGAGGGGAT
ACTGTGGAGCAGCCAGTCCACACCAGAGCCCCACGCGGCTGCCCCGCGAGTACCTCCTCC
AGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTGTTGTAACAATAACGTACTC
ACCGCCGCGGACAATCCCCACCCGATCCCTCGCCAGACCAGGACGCTTCTCAAGCCC
AGCCTTCTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCGGGGACCTTCAGCCTG
GACACCCGGCAGCTTCTGGAGTTTGTCACTGGAGGCAGAGGGGATCCGGCCAGGCCCCCTC
TGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCTCTTTTTCCGCCCAT
TCTCCCTCGGGTCTCCCCAGAGGGGCCGGCGGGGGCTGGGGAGGGGGTAAGTTTATCCAT
GCAGACACCAAGGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGGGGCCCTTTTCCGAAG
CCACTTCCAGGCCAAGGCAGTCGCCAGGGCTTCTTGTCCCCACCTTCTGAACCTTCTTCA
AACAGTAGTACAAGCTCCCCTCAGCCAGCCTGCCTGCCAGCGAGGCCCCCAGGTTCAAG
GTGTTGGCGGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGCTGCCACCAACACCA
ACACACACACACCTCTAAGCTGCTGGCCGAAGATGTACCAAGGCCAAAGACACAGTATT
ATGAAGGTTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTGGGCAAACCTGGCTC
GGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGTTTGACAAAGGTGAGT
AATACGGTTTTCCCTGGGGTTGACCAGATGTTCCAAAATATCTGCATCCACCTGGAGATG
CAGCTAAGTGGGTCTTATGTACACACCAGTTTACACACACACAGAGGGACCAGTGTG
CACGCATGACCGTGTGGGTGGCGGCGTTTGTCTGTGAACCACGCTCAGGCCACACAGAGAC
ACATACTTGGTTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGTGCTACAGATACTGC
AAACGTTTCTACAGCCTAGAGGTGCGTATACACACCCAAAGTACACGCAGCCAGGCATTCA
GGGGTGTGTTTTGCCACATGGAGCATCCCTTCTGCTGTTGCCAGGCACCTGCACAGAGCG
TCTCCAGCCCCATCTCCTAACGGGGGGCTGGGGGTAAGAGAAATCTAACTGCGCTCCCCCA
ACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCCAGGCCTGTGCGTGGT
GGAAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGGGGACCAACAGGTTGC
TTACAGCTTTGCACCCCGGCATCAGCACAGGGGTCCCTGCCCCACCTCCGGCAGCTCAG
GGAGTGTGTTTTCTGTGAGGCCTCCCCCATCAGTGGACCAGAGGGAGAAGCCCGATGCCCC
ATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTATAGGAACGGCCCAGATCG
CCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTCTGCCCCAAATGCAGCC
CATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCCCTCCAGTCCCTGTTGGCTTTTCGGTA
GCTCTCGCATGCAGTTCTATTAAACAGCCGTCTAGAAGCGATGCTTTAGTGGCCTAACCCA
GGGTCAAATACAGCTCTTTCTAGCAAAATCAGGCAGCTCTGCCCCATCGGTAGGGGCACC
GATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGGAGGAGCTGAGCCCCC
GGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTCTTGGGAGCTTCTGCCTCC
GTGGGCCTCTCAGCCCGCCCCGTGTGGCCGCCCCGGGTGTGGCTCAGCCATGTCCCCTCCC
CAGGTCCTTCATTACCCCTCCCCTCCCCACAGTGGAATTGTTGAAGTGTGGCGAGTCTG
TGCTCGGGACAATAAAGCTTGTGACAGGTCCAGGA

Gene 706. >OTTHUMT00007006307 cDNA sequence

ATGGCGGAACCGCCGAGCCCCGTGCACTGTGTGCTGCGCGGGCCCCCACCGCCACCGTC
TCGGAGAAAGAACCCTTTGGCAAGCTGCAACTCTCCTCCCGGGACCCTCCGGGTTCTCTG
TCCGCCAAGAAGGTCCGGACTGAGGAGAAGAAGGCACCGCGGAGAGTGAACGGAGAAGGG
GGCAGCGGCGGGAACAGCAGGCAGCTGCAGCCGCGGCAGCACCTTCGCCTCAGAGCTAT
GGCAGCCCCGCGTCTTGGAGCTTTGCCCTCTGTCTGCTGCTCCCTCCCCGTCTCTTCT

FIGURE 1 (CONT'D)

CGGAGCAGTTTCTCTTTCTCCGCTGGCACGGCCGTTCCCTCCTCAGCCTCCGCTTCCTTG
TCTCAGCCGGTGCCGCGCAAACCTGCTGGTCCCTCCTACGCTGCTGCACGCTCAGCCTCAC
CATCTCCTCCTGCCCCGCCGCCGCCGCTGCCTCGGCTAACGCCAAGTCGCGCAGACCT
AAGGAGAAGCGGGAGAAGGAGAGGAGGAGGCACGGTCTCGGTGGGGCCCGAGAGGCCGGC
GGGGCCTCCCGGAGGAGAACGGGGAGGTGAAGCCGCTGCCCCGAAATGATAAAACCAGG
AGCTTTGACGATTTTTTCGCCAGATCAAGCGGCTGCAGAATGTTTGAGCATTAGAAAAAGG
CGAATTCCTTAAGGGTCTTGTGACACATGTTTTGCAGCTTCCATTGTGGTGTTTTTATGT
GTGGAATTCTTTTTATTTATTCCAAAAATCAAAGACAAAATTAAAGAGAGAGACAAAGAA
AAAGAAAGAGAAAAAAGAAACATAAAGTAATGAATGAGATCAAGAAAGAGAATGGAGAA
GTAAAGATTTTGCTGAAAGGGAAGGAGAAACCAAAAACAAATATAGAAGACTTACAAATT
AAAAAGGTAAAGAAGAAAAAGAAAAAGAAACACAAAGAGAATGAAAAACGGAAGCGTCCG
AAAATGTATAGCAAATCTATTAGACCATCTGCTCAGGATTGCTAACTGATGTTGAAGAT
CAAGCAGCCAAAGGCATCCTAAATGATAACATAAAAGATTACGTTGGGAAGAATTTGGAT
ACCAAGAACTATGATTCAAAAATTCAGAGAACAGTGAGTTTCCATTTGTCTCATTAAAG
GAGCCACGAGTTCAGAATAACCTCAAAGGTTGGACACTTTGGAATTTAAACAACCTCATT
CATATAGAGCACCAGCCTAATGGAGGTGCATCGGTTATCCATGCCTACAGTAACGAACTC
TCCCACCTGTCTCCTATGGAGATGGAGAGGTTTGAGAAGAGTTTGTGGGTCTAGTGTTT
AGTGAAAATGAAAACCTCTGCAGCTTTCTACGTGATGGGTATTGTTTATGGGGCAGCTACT
TATTTACCTGACTTTTTAGACTATTTTTCATTTAATTTTCCCAATTCACCAGTGAAAATG
GAGATATTGGGAAAGAAAGATATAGAGACAACGACTATGTCCAATTTTTCATGCTCAGGTA
AAAAGAACGTATTCTCATGGTACTTACAGAGCTGGCCCAATGAGACAAATAAGCTTGGTG
GGAGCAGTTGATGAAGAAGTAGGAGATTATTTCCCTGAGTTTCTTGACATGTTGGAAGAG
TCACCATTTTTTAAAATGTACACTGCCATGGGGGACGCTATCTAGTCTAAAATTACAGAGT
CGAAAAGATAGTGATGATGGTCCCATCATGTGGGTTCGTCCAGGAGAACAAATGATCCCT
GTGGCTGATATGCCAAAGTCACCTTTCAAAGGAAACCTGATCAACCCCGTATAACCAA
GATGTAATTTGTTTTTTCATGCTGAAGATTTCTTAGAAGTAGTTCAACGAATGCAGTTAGAT
TTACATGAACCTCCACTGTCCCAGTGTGTCCAATGGGTTGATGATGCAAACTGAATCAA
CTGAGGAGGGAAGGCATTTCGCTATGCCAGGATTGAGCTATATGATAATGACATTTATTTT
ATTTCCAAGGAATGTTGTTTCATCAGTTCAAGACAGTTTCAGCTGTATGCAGTTTAGCATGG
CATATTCGGCTCAAATTATATCACTCAGAGGAGGACACTTCTCAGAATACAGCTACTCAT
GAAACAGGCACATCATCAGATTCCACATCATCTGTTCTTGGACCTCACACTGACAACATG
ATTTGTGCTGTAAGCAAAGCCTCCTTGGATTCTGTTTTTTTTCAGATAAACTTCATTCTAAA
TATGAATTACAGCAGATTAAACATGAACCTATTGCATCTGTAAGAATCAAGGAAGAACCT
GTGAATGTTAATATTCTGAAAAGACTACAGCACTGAATAATATGGATGGCAAGAATGTT
AAAGCAAATTTGGATCATGTTCAATTTGCAGAATTTAAGATTGACATGGATTCTAAATTT
GAAAATAGCAACAAAGATTTAAAGGAAGAATTGTGCCCTGGAAATCTAAGTCTAGTTGAT
ACAAGGCAACACAGTTTCAGCACATTCAAATCAAGATAAAAAAGACGATGACATTTTGTGC
TAA

Gene 707. >OTTHUMT00007006310 cDNA sequence

ATGGCGTCCAAAGTCACAGATGCTATAGTCTGGTATCAAAGAAGGAGTTTCTCTCTGTG
GCCACCACCGCCCCAGGCCACAGCAAGTACTGCCTGGCTACTGCCAGTGTTCACTCAAG
GACCAAGGGCTCTTCATTCAAGTGTGTTGTTAATGGAGTTGTGTCTCCTCTTGGCAGTGTT
CCTCCCTCTGGAACCTAAGACCTCCAGGCCAGGAGAACGTAATGTCTCAGGAACAGGAAGC
AAAAATTTTACTAGTGTATCACTAGGGGTGATGATTGGAGCATATGATCAACAAATATGG
GAAAAATCTGTTGAACAGAGAGAAATCAAGTTTATTAACTGGGGCTAAGGAATAAACCA
AAGAAAACAGCACATGTGAAACCAGACCTCATAGATGTTGATCTTGTAAGATCTGCATTT
GCAAAGGCAAAGCCTGAAAGTCTTGGACTTCTCTGACCAGAAAGGGAATTGTTTCGAGTT
GTATTTTTTCCCCTTTTTCTTCCGGTGGTGGTTACAAGTAACATCAAAGGTTCATTTTTTC
TGGCTTCTTGTCTTTTATCTTCTTCAAGCTGCAATAGTATTATTCTGCTCCACTTCTAGC
CCACACAGCATACCTCTGACAGAGGTGATTGGGCCGATATGGCTGATGCTGCTCCTGGGA
ACTGTGCATTGCCAGATTGTTTCCACAAGAACCCCAAACCTCCTCTAAGTACAGGGGGT
AAAAGAAGATCAAAGAAAGCAAAGAATTCAATTGATAAATCAACTGAACTGACAATGGC
TATGTATCCCTTGATGGGAAGAAGACTGTTAAAGCGGTGAAGATGGAATACAAACCAT
GAACCTCAGTGTGAAACTATTTCAGACCAGAAGAGACAGCCTGGAACACAGGAACACTGAGG

FIGURE 1 (CONT'D)

AATGGTCTAGCAAAGATACCCAAAGGACAATAACAAATGTCTCTGATGAAGTCTCCAGT
 GAGGAAGGTCTGAAACAGGATACTCATTACGTCTCATGTGGACAGGACTTCTGAAGGT
 GTTCTTCGGAATAGAAAGTCAACCATTTATAAGAAACATTACCCTAATGAGGACGCCCCCT
 AAATCGGGTACTAGTTGCAGCTCTCGCTGTTCAAGTTCCAGACAGGATTCTGAGAGTGCA
 AGGCCAGAATCTGAAACAGAAGATGTGTTATGGGAAGACTTGTTACATTGTGCAGAATGC
 CATTTCATCTTGTACCAAGTGAGACAGATGTGGAAAATCATCAGATTAATCCATGTGTGAAA
 AAAGAATATAGAGATGACCCTTTTCATCAGGTGAACAGCCATATACCAGGAATAGGATAC
 CAGATTTTTGGAAATGCAGTCTCTCTCATACTGGGTTTAACTCCATTTGTTTTCCGACTT
 TCTCAAGCTACAGACTTGGAACAACCTCACAGCACATTCTGCTTCAGAACTTTATGTGATT
 GCATTTGGTTCTAATGAAGATGTATAGTTCTTTCTATGGTTATAATAAGTTTTGTGGTT
 CGCGTGTCTCTTGTGTGGATTTTCTTTTTTTTGTCTGTGTAGCAGAAAGAACTTATAAA
 CAGCGATTACTTTTTGCAAACTCTTTGGACATTTAACATCTGCAAGGAGGGCTCGAAAA
 TCTGAGGTTCTCATTTCCGGTTGAAGAAAGTACAGAATATAAAAATGTGGCTATCTCTC
 CGTTCCTATCTTAAGCGTCGAGGTCTCAGCGATCAGTTGATGTAATAGTTTCATCTGCT
 TTCTTATTGACTATCTCAGTTGTATTTATCTGTTGTGCCAGATAAACCTCTACTTGAAA
 ATGGAGAAAAACCTAACAAAAAGGAGGAACCTGACACTAGTGAATAATGTTTTAAACTG
 GCTACTAACTGCTAAAGGAGTTGGACAGTCTTTTAGATTATATGGGCTTACAATGAAT
 CCGCTGCTTTATAACATCACCCAGGTTGTTATCCTGTCTGAGCTGTTTCTGGTGTTATCAGT
 GACTTGCTTGATTTAATTTAAAGCTATGGAAGATTAAGTCATGA

Gene 708. >OTTHUMT00007006314 cDNA sequence

GAGCACATCAGCTATGTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCCCTG
 TCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGTTTCAGCAGCCACAACATCTCTGACTTG
 GATACCATCTGGCTGGTGGTGGCCCTCAGCAACGCCACCCAGAGCTTCACGGCCCCACGG
 ACAAACCAGGACATCCCTGCTCCTGCCAAGTTCTCCAGAGGGGCTACTATCTCACTG
 AGGGCCAACCGGGTGTGTACCAGACCAGAGGCCAGCTCCATGTCTCCGCGTCGGCAAT
 GATACCCACTGCCAACCAACAAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGCCCC
 TACAGGGTGAAGTTCTTGGTGATGAATGACGAAGGACCCGTGGCTGAAACCAAGTGGTCC
 AGCGACACTCGCCTGCAGCAAGCCAGGCACCTTCGGGCTGTCCCCGGCCCCCAGAGCCCG
 GGCACCGTGGTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTCCTC
 CTGGCTGTGCTCATATACACCTGCTGCAGGAGCACTTCCCTATCAGGCCCAGAGGAGGCA
 GGGAGTGTGAGAAGATACACCACGCACCTCGCGTTTCAGCACTCCTGCCGAGGGGGCTTCC

Gene 709. >OTTHUMT00007006319 cDNA sequence

CCATTGAATCCCAGTCCCTAACAGAAGTACTGCGAATCTTGTGGCCTCATTCTGAACAAAA
 GGGATTAGAGAAGAAAAATCTCTTGATATAAGGCTTGAAAGCAAGGGCAGGCAATCTTGG
 TTGTGAATATTTTTCTGATTTTTCCAGAAATCAAGCAGAAGATTGAGCTGCTGATGTCAAT
 TAACTCTGAGAAGTCGTCTCTTTCAGAAAGGCCGAGCCTCAACAGAAAGCTCCTTTAGT
 TCCTCCTCCTCCACCGCCACCACCACCACCGCCACCTTTGCCAGACCCCAACCCCC
 GGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCTGCGGACTA
 CTGCAAAGGTGGATATCATCCAGTGAAAATTGGAGACCTCTTCAATGGCCGGTATCATGT
 TATTAGAAAGCTTGGATGGGGGCACTTCTCTACTGTCTGGCTGTGCTGGGATATGCAGGG
 GAAAAGATTTGTTGCAATGAAAGTTGTAAAAAGTGCCAGCATTATACGGAGACAGCCTT
 GGATGAAATAAAATTGCTCAAATGTGTTTCGAGAAAGTGATCCAGTGACCCAAACAAAGA
 CATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAATGGGATACATGTCTG
 CATGGTCTTTCGAAGTACTTGGCCACCATCTCCTCAAGTGGATCATCAAATCCAACCTATCA
 AGGCCTCCCAGTACGTTGTGTGAAGAGTATCATTGACAGGTCTTTCAAGGGTTAGATTA
 CTTACACAGTAAGTGCAAGATCATTCTACTGACATAAAGCCGGAAAAATATCTTGATGTG
 TGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGAGTGGCAGAAAGCAGG
 TGCTCCTCCTCCTTCAGGGTCTGCAGTGAGTACGGCTCCACAGCAGAAACCTATAGGAAA
 AATATCTAAAAACAAAAAGAAAAAAGTGAAGAAAGAAACAGAAGAGGCAGGCTGAGTTATT
 GGAGAAGCGCCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGAAAGGAAAAATAATAGA
 AGAAAAATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGAATACTGCCAGAGGT
 GAACTAAAAACAACAGGATTAGAGGAGGCGGCTGAGGCAGAGACTGCAAAGGACAATGG
 TGAAGCTGAGGACCAGGAAGAGAAAGAAGATGCTGAGAAAGAAAAATTGAAAAAGATGA
 AGATGATGTAGATCAGGAACCTTGCGAACATAGACCCTACGTGGATAGAATCACCTAAAAAC

FIGURE 1 (CONT'D)

CAATGGCCATATTGAGAATGGCCCATTTCTCACTGGAGCAGCAACTGGACGATGAAGATGA
TGATGAAGAAGACTGCCCAAATCCTGAGGAATATAATCTTGATGAGCCAAATGCAGAAAG
TGATTACACATATAGCAGCTCCTATGAACAATTCAATGGTGAATTGCCAAATGGACGACA
TAAAATTCCCGAGTCACAGTTCCCGAGGTTTTCCACCTCGTTGTTCTCTGGATCCTTAGA
ACCTGTGGCCTGCGGCTCTGTGCTTTCTGAGGGATCACCCTTACTGAGCAAGAGGAGAG
CAGTCCATCCCATGACAGAAGCAGAACGGTTTTAGCCTCCAGTACTGGGGATTGCCAAA
AGCAAAAACCCGGGCAGCTGACTTGTGGTGAATCCCTGGATCCGCGGAATGCAGATAA
AATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTGGGTGCATAAACACTTCACGGA
AGACATCCAGACGCGTCAGTACCGCTCCATAGAGGTTTTAATAGGAGCGGGGTACAGCAC
CCCTGCGGACATCTGGAGCACGGCGTGTATGGCATTGAGCTGGCAACGGGAGATTATTT
GTTTTGAACCACATTCTGGGGAAGACTATTCCAGAGACGAAGACCACATAGCCACATCAT
AGAGCTGCTAGGCAGTATTCCAAGGCACTTTGCTCTATCTGGAATAATTCTCGGGAATT
CTTCAATCGCAGAGGAGAACTGCGACACATCACCAGCTGAAGCCCTGGAGCCTCTTTGA
TGTACTTGTGGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACAGTTTACAGATTTCT
GATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGGCGAATGCCTTCGGCA
TCCTTGTTGAATTCTTAGCAAATCTACCAATATTGCATTCTGAGCTAGCAAATGTTCC
CAGTACATTGGACCTAAACGGTGACTCTCATTCTTTAACAGGATTACAAGTGAGCTGGCT
TCATCCTCAGACCTTTATTTTGCTTTGAGGTAAGTGTGTTTGACATTTTGCTTTTGTGC
ACTGTGATCCTGGGGAAGGGTAGTCTTTGTCTTCAGCTAAGTAGTTTACTGACCATTTT
CTTCTGGAACAATAACATGTCTCTAAGCATTGTTTCTGTGTTGTGTGACATTCAAATG
TCATTTTTTTGAATGAAAAATACTTTCCCTTTGTGTTTTGGCAGGTTTTGTAATAATTT
ATGAAGAAATATTTTAGCTGAGTACTATATAATTTACAATCTTAAGAAATTATCAAGTTG
GAACCAAGAAATAGCAAGGAAATGTACAATTTTATCTTCTGGCAAAGGGACATCATTCT
GTATTATAGTGTATGTAAATGCACCTGTAAATGTTACTTTCCATTAAATATGGGAGGGG
GACTCAAATTTAGAAAAGCTACCAAGTCTTGAGTGCTTTGTAGCCTATGTTGCATGTAG
CGGACTTTAACTGCTCCAAGGAGTTGTGCAAACTTTTCATTCCATAACAGTCTTTTACA
TTGGATTTTAAACAAAGTGGCTCTGGGTTATAAGATGTCATTCTCTATATGGCACTTTAA
AGGAAGAAAAGATATGTTTCTCATTCTAAAATATGCATTATAATTTAGCAGTCCCATTG
TGATTTTGCATATTTTTTAAAGTACTTTTAAAGAAGAGCAATTTCCCTTTAAAAATGTGA
TGGCTCAGTACCATGTCTATGTTGCCTCCTCTGGGCGCTGTAAGTTAAGCTCTACATAGAT
TAAATTGGAGAAACGTGTTAATTGTGTGGAATGAAAAAATACATATATTTTTGGAAAAGC
ATGATCATGCTTGTCTAGAACACAAGGTATGGTATATACAATTTGCAGTGCAGTGGGCAG
AATACTTCTCACAGCTCAAAGATAACAGTGATCACATTCATTCCATAGGTAGCTTTACGT
GTGGCTACAACAAATTTTACTAGCTTTTTTCATTGTCTTTCCATGAAACGAAGTTGAGAAA
ATGATTTTCCCTTTGCAGGTTGCACACAGTTTTGTTTATGCATTTCTTTAAATTAATTG
TAGACTCCAGGATACAAACCATAGTAGGCAATACAATTTTAGAATGTAATATATAGAGGT
ATATTTAGCCTCTTTTAGAAGTCAGTGGATTGAATGTCTTTTATTTTAAATTTTACATT
CATTAAAGGTGCCTCGTTTTTGACTTTGTCCATTAAACATTTATCCATATGCCTTTGCAATA
ACTAGATTGTGAAAAGCTAACAAGTGTGTGAACAATAATCCATTGTTTGAGGTGCTTGCA
GTTGTCTTAAAAATTAAAGTGTGTTTTTTTTTTTTTCCAGACATTGC

Gene 710. >OTTHUMT00007006331 cDNA sequence

GCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGCCACGCAGTCCGAGCGGGAGCCG
AGCCGGGCGGGGCGAGGGCAGCTCCGCTGGCTCCCACCATGAGTGCTGAGCTTAACGTG
CCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCGGCCATAAGGGCATGGATTACCGG
GACTGGGTCCGCCGAGCTACCTGGAAGTGGTCACCTCTAACCACCACTCGGTACAGGCC
CTGTCTGTGGCGGAAGCTCTACCTGAGCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCC
GCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTAC
CAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCCTGCACCACGGTGTGGTGGCCGTG
CACCTGTTCCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAAC
ATCCACAACCTGAACTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAG
CTGGCCTGGGGCTTCTCCACCGTGCTTGGCATCCTACTCTTCTGGCCGAGGTGGTGTG
CTCTGCTGGATCAAGTTCTCCCGGTGGATGCCCGGCGCCAGCCTGGCCCCCACCTGGC
CCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTG
GGCCTCATCTTCGTGGTCTTCAACATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACG

FIGURE 1 (CONT'D)

GAGCGCCACAACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCAT
GAGCGCAGCCTGCAGGTCTTGTGAGGGGCGGAGGGCCGGGGCTGGGAGCGGCCCTGTGCC
CGGGAGTCCGCAGAGGCGGGGATTTGTGAGATGCAGACATTTTGCAAGGCTGCCGGGTAG
TTCAAGACCAAAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTCCTGAG
ATAGAACCGTTTTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGG
CTGGTTCTTGGCCTCGGGGTTTTCTGGGTGGGGACACGGTGAAGAGGCTCCAGCGGGA
CCTGCCCATCAGTCCTGGGCCAGGAGGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGT
CTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCCAGGGCAGGGTTTTGCGTTCA
GAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGTGTGAC
AGTGATGACACGAAGGCTTCGGCGTTTGTAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGC
TTCCCTGCCTGGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAG
GACACACGTGAGCCAGCAGGTGTGGGGGGTGTGTCAGCCCTCGGCAGTGGGGTCAGGCC
CTGGGGGATGTTTTCAATGGTGGGCAGCCTGGCCAGGCCGGAGAAGACATGTTACGGGC
ATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTACGCTA
GGCTCAAATTCTCTTTTCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGG
GGTGGGGAAAGGACCCCTCCCCACCCCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACA
GAATGGCCTCTAAGGCTGACTCAGCCACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGC
TCTGGCTCAGGCCCCGAGCCTGTGCAGCTTGCCCATGGCCCTAGGCAGCGAGGGGACAG
CCTGGGGGACTTCTGCTAGGCAAGGTCAATTGGCCGGGCCTGGCCTGTGGATAGTGGGG
CCAGGGGCCGGCCAGGCCAAATGAGTGCCTCTCTTGTATGACACCAAGTACTACAAG
GGAGGCAAGACCCCTCCAGGCCTCTCAGCCGACACTGGGTCCCACCACACACAGTACTG
TGCCGTGCAGTGCAGGTTCTGGCCTTTTCTTGAAGGCATCTGGTAGACCCGAAGCCACG
CTCTCGGGCCGCACATGCACGCCGAGCACCAGCTGCCCTGAGCTGCTTGTACAACCAA
CACCTTTCCCCTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCTTGTCTTTTGTTC
TCATAAATAGTCACTGGGGCCGGGCGCAGTGAATCACGCCTGTAATCCAGCACTTTGGG
AGGCCTAGGTGGGCGGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGT
GAAACCTGTCTCTACTAAAAAATACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTG
TAGCCCCAGCTACTTGGGAGGCTGAGGCGGGAGAATGGCAATGGCGTGAACCCGGGAGGC
AGAGCTTGAGTGAAGTGAAGTGGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGAC
TCCATCTC

Gene 711. >OTTHUMT00007006349 cDNA sequence

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGGCG
GCAGAGGGTCCC CGCGGAGTGTCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCA
CAGAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTAGGGCGACA
TAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAGTCAGAGACAAAGACA
CAGATAAATTTAAAGGATTCTGCTATGTAGAATTGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCATGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAG
GCAGAAAAAAGATAAAGGTGGCTTTGGATTAGAAAAGGTGGACCAGATGACAGAGGAA
TGGGTAGCTCTCGAGAATCTAGAGGTGGATGGGATTCCCGGGATGACTTCAATTCTGGCT
TCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGCGACCGGCGAACAGGCC
CCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCCCTCCGTGGATCCAACATGGATTTCA
GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGC
CTAGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGC
GTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAAGTCCCCGGGCAGCCGTCTGTCAGCCGC
CACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
GCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTGCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGC
TCCTTGTTTTTCCAGCAGCACATGGGGTTCTCTCGGAGGAGCAGAGGTGGCCGCGCTGGGG
GGGCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACT
GGCCCAACTCCAGGCGTTTTCTTTTCAATCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGTGGTATTGAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTTCAAA
CTAGGATAAAAAATATCTGCAGGGTCTTTCCATTCTTATTTAGAGGGAGTCTGGCTCCA

FIGURE 1 (CONT'D)

TGACCCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAACAGTGAGGCTG
AAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCCAGCTAGTTCACTCCTTTGCGCGTGCCTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTCTTTTCTGCTGGGCCAAGG
CGCTTTGGGGGTGGAGGGGTGGTGTCTGGTGTGCACTGGGCTGACTGCGGCGCTGACGC
AGCGTTTCCCCCATCCCTGTTGCCTGTGTGTGTGTGGATCTGTTCTAGTATAGGCAA
CATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTGAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTTGATAAATTGTACTATGCAGAGCTGTGAGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGG
ACTGTTCCCATGTGCAGGGTTTCAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAG
CTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCCAGTCTGTCC
TATGGGGAGCAGTTTGGGGGCGGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC
AGCCGTCTCCTGGGCTTTTCTACTGTGTCTTGTGTACAAGGCCTCAGCAATCCACAGAA
CTCTCTCTCCTTCCCTTCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGT
AACACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGTAAATCAAACCCGATGCTT
TCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCAAACACTTAACAC
ATTGAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAA
ATAAAAGAAAACCTTACGTAATATTT

Gene 712. >OTTHUMT00007006353 cDNA sequence

CAGTGCGGCGGATGTACGGATGATTTCAGTGGCTGGCAGGAAGCCCGCCCTGCCCCCGCGC
CAGTGTGAGTGGTGTGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCG
TGGTGAGGAACCTGGACTCTCAGCATCACAAGAGGCAACACCAGGAGCCAACATGAGCT
CGGGGACTGAACTGCTGTGGCCCCGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCA
GTCTGTGTGTGCGCTGCTCACGCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGA
GAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTCGGGC
AGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGCTGTTGCAAT
TCTACCCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCA
GACACGGGTGCGGAGGAAGCCTACATATGATGATGCCAATTCTACGAGAATGTGCTCATT
TGCAAGCAGAAAACCAAGAGACAGGTGCCCAGCAGGAGGGCATAGGTGGCCTCTGCAGA
GGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCCACTTCTGGTCTCTGTCCCTCT
GCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAG
TGGCGCGAGTCCAGGAAGGTGATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCCGGTG
GGAAGCCCAGACGAGGAGGACGGGGAAACCGGATTACGTGAATGGGGAGGTGGCAGCCACA
GAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAAGAGGGACCACTGTGCTCATG
GACCCATCGCTGCCTTCCAAGGACCATTTCCCAGAGCTACTCAACTTTTAAGCCCCCTGCC
ATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGCACAG
CCTGGGAAAAGACAGTTACTCACGGGAGCTGCAGGCCCGTCAACCAAGCCCTCTCCCGACC
CAGGCTTTGTGGGGCAGGCACCTGGTACCAAGGGTAACCCGGCTCCTGGTATGGACGGAT
GCGCAGGATTTAGGATAAGCTGTCAACCCAGTCCCCATAACAAAACCACTGTCCAACACTG
GTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTGCTGGG
GTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACAT
TCTGGATTTTCAGAGTAGAGATTTCTGTGTTGTCTCTAGAAAGCATTACATGTAGTTTAT
TTCAGCATCCTTGTTGGGTGGGGCCCTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCTTT
CTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTGCGCCATCTTTATGTGCTTCCAG
TGGAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGACCAGAA
CAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCT
GCAGAGCTGATTAAACAGTGTGTGACTGTCTCATGGGAAGAGCTGGGGCCAGAGGGAC
CTTGAGTCAGAAATGTTGCCAGAAAAAGTATCTCCTCCAACCAAAACATCTCAATAAAAC
CATTTTAGTTGAAAAGC

Gene 713. >OTTHUMT00007007303 cDNA sequence

GCCGCTCCTGCCGTGCATGTTGGGGAGCCAGTACATGCAGGTGGGCTCCACACGGAGAGG
GGCGCAGACCCCGTGATAGGGCTTTACCTGGTACATCGGCATGGCGCAACCAAAGCAAGA

FIGURE 1 (CONT'D)

GAGGGTGGCGCGTGCCAGACACCAACGGTTCGGAAACCGCCAGACACCAACGGTTCGGAAAC
CGCCAGACACCAACGCTCGGAAACCGCCAGACACCAACGCTCGGAATACACGCCAGACCA
CGACGGAGGGCGACCACCTCCCTTCTGACCCTGCTGCGGGCGTTCGGAAAAAAACGCAG
TCCGGTGTGCTCTGATTGGTCCAGGCTCTTTGACGTACGGAAGTTCGACCTTTGACAGAGC
CACTAGGCGAAAAGGAGAGACGGGAAGTATTTTTTCGCCCCCGCCGAAAGGGTGGAGC
ACAACGTGAAAGCAGCCAATGGGAGCCAGGAGGCGGGGCGCCTGTGGGAACCGTGGAG
GGCACTTTCCAGTCCCCGAGGCGGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCT
GGAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTT
GCTCTGGGCCCGGTAGTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAAAACAGTC
TGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTG
AAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAAGTCTGAAAC
ATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTC
GGGGGGAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACG
TATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAA
CCCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTAC
CTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAAACGTGCCTGCTTCCCTTCG
CCTTCTGCCGTGATTGTGAGTTCTTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTG
CAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTGATCA
CTGTATTGAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGA

Gene 714. >OTTHUMT00007006363 cDNA sequence

GCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTG
GTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCC
ACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAAT
GGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTACCATTCTACCTGCC
ACGTATCGGCGAAGGTTGGGACTCAACTGGTGT

Gene 715. >OTTHUMT00007006375 cDNA sequence

CCGCCTTCGGCCCGGGCCTCCCGGGATGGCCGTGGCGCCTCTGCGGGGGGCGCTGCTGCT
GTGGCAGCTGCTGGCGGCGGGCGGCGCGCACTGGAGATCGGCCGCTTCGACCCGGAGCG
CGGGCGCGGGGCTGCGCCGTGCCAGGCGGTGGAGATCCCCATGTGCCGCGGCATCGGCTA
CAACCTGACCCGCATGCCCAACCTGCTGGGCCACACGTGCGAGGGCGAGGCGGCTGCCGA
GCTAGCGGAGTTGCGCGCCGTGGTGACGTACGGCTGCCACAGCCACCTGCGCTTCTTCCT
GTGCTCGCTCTACGCGCCCATGTGCACCGACCAGGTCTCGACGCCCATTCCCGCCTGCCG
GCCCATGTGCGAGCAGGCGCGCCTGCGCTGCGCGCCCATCATGGAGCAGTTCAACTTCGG
CTGGCCGGAATCGCTCGACTGCGCCCGGCTGCCACGCGCAACGACCCGCACGCGCTGTG
CATGGAGGCGCCGAGAACGCCACGGCCGGCCCCGCGGAGCCCCACAAGGGCCTGGGCAT
GCTGCCCCGTGGCGCCGCGGCCCCGCGCCCTCCCGGAGACCTGGGCCCCGGGCGGGCGG
CAGTGGCACCTGCGAGAACCCCGAGAAGTTCCAGTACGTGGAGAAGAGCCGCTCGTGCGC
ACCGCGCTGCGGGCCCCGGCTCGAGGTGTTCTGGTCCCGGCGCGACAAGGACTTCGCGCT
GGTCTGGATGGCCGTGTGGTCCGGCGCTGTGCTTCTTCTCCACCGCTTCACTGTGCTCAC
CTTCTTGCTGGAGCCCCACCGCTTCCAGTACCCCGAGCGCCCCATCATCTTCCTCTCCAT
GTGCTACAACGTCTACTCGCTGGCCTTCTGATCCGTGCGGTGGCCGGAGCGCAGAGCGT
GGCCTGTGACCAGGAGGCGGGCGCGCTCTACGTGATCCAGGAGGGCCTGGAGAACACGGG
CTGCACGCTGGTCTTCTACTGCTCTACTACTTCGGCATGGCCAGCTCGCTCTGGTGGGT
GGTCTTGACGCTCACCTGGTTCTTGGCTGCCGGAAGAAATGGGGCCACGAGGCCATCGA
GGCCACGGCAGCTATTTCCACATGGCTGCCTGGGGCCTGCCCGCGCTCAAGACCATCGT
CATCCTGACCTGCGCAAGGTGGCGGGTGATGAGCTGACTGGGCTTTGCTACGTGGCCAG
CACGGATGCAGCAGCGCTCACGGGCTTCGTGCTGGTGCCCTCTCTGGCTACCTGGTGCT
GGGCAGTAGTTTCTCCTGACCGGCTTCGTGGCCCTCTTCCACATCCGCAAGATCATGAA
GACGGGCGGCACCAACACAGAGAAGCTGGAGAAGCTCATGGTCAAGATCGGGGTCTTCTC
CATCCTCTACACGGTGCCCGCCACCTGCGTCATCGTTTGCTATGTCTACGAACGCCTCAA
CATGGACTTCTGGCGCCTTCGGGCCACAGAGCAGCCATGCGCAGCGGCGCGGGGCCCGG
AGGCCGGAGGGACTGCTCGCTGCCAGGGGGCTCGGTGCCACCGTGGCGGTCTTCATGCT
CAAAATTTTCATGTCACTGGTGGTGGGGATCACCAGCGGCGTCTGGGTGTGGAGCTCCAA
GACTTTCAGACCTGGCAGAGCCTGTGCTACCGCAAGATAGCAGCTGGCCGGGCCCCGGG

FIGURE 1 (CONT'D)

CAAGGCCTGCCGCGCCCCGGGAGCTACGGACGTGGCACGCACTGCCACTATAAGGCTCC
CACCGTGGTCTTGCACATGACTAAGACGGACCCCTCTTTGGAGAACCCACACACCTCTA
GCCACACAGGCCTGGCGCGGGGTGGCTGCTGCCCCCTCCTTGCCCTCCACGCCCTGCCCC
CTGCATCCCCTAGAGACAGCTGACTAGCAGCTGCCCAGCTGTCAAGGTCAAGCAAGTGAG
CACCGGGGACTGAGGATCAGGGCGGGACCCCGTGAGGCTCATTAGGGGAGATGGGGGTCT
CCCCTAATGCGGGGGCTGGACCAGGCTGAGTCCCCACAGGGTCTAGTGGAGGATGTGGA
GGGGCGGGGAGAGGGGTCCAGCCGGAGTTTATTTAATGATGTAATTTATTGTTGCGTTC
CTCTGGAAGCTGTGACTGGAATAAACCCCGCGTGGCACTGCTGAGTCCTCTCTGGCTGG
GAAGGGGGGAAGGTAGGAGG

Gene 716. >OTTHUMT00007007328 cDNA sequence

CAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGCTTCTTGAGGGCTCC
CCAGCCATGCTTCTGTACAGCCTGCAAACTTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCAGGTGGTACTGAGTCTAAGCACT
GGATGAAGAAGATAGTAGAAAACAGTCTGGATGCTGGTGCCACTAATGTTGATCTAAAGC
TTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAG
AAAACCTTCGAAGGCTTAATCCTTACTTTACAGTCTCTTTTCAGCTCTGAAACATCACACAT
CTAAGATTCAAGAGTTTGCCTGACCTAACTCGGGTTGAAACTTTTGGCTTTTCGGGGGAAAG
CTCTGAGCTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCACGTATCGGCGA
AGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACC
CCCACCCAGAGGGACCAAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCC
ATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCC
GTGATTGTGAGCTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTGCAAACTTG
TCCAGGATGTAAGTACAGAGCTACGGGCATGCAGAAGTTGGAAGATGAGGGAAGGCATCA
CAGAGGCTGTGGGG

Gene 717. >OTTHUMT00006011974 cDNA sequence

ACCTTGGCAGCTTTGCCAAGGCTACCTTCAATGCCATCTCCAGGACCTACAGCTCTGACT
TGTGGAAAGAGGATGTATTTACCAAGTCTCCCTATCAGGAATTCAGTGGTACCTTGTA
AGA

Gene 718. >OTTHUMT00007007330 cDNA sequence

TTACTAGAAAAAGAACTCTGTATTACAGAAAAGCAACTGGGTACAAGGTACCTCAAAAT
CACGACCTACCAAATGCAGCATAGGCACAGAAAAAGAACAGTTTAAATAAGCTGAACCCC
TTATTGATGAAGAGATAGAGTTAACACAGGGATTTACCAATTGAACTCAGAGATTTTAAAC
CAGCTTATCAAAGCTAATTAAAAATGGGGTTGTGATATTGAAAATATAGCAAGAGAAGAAG
AGGGAAAAAGCTTACGGGAGGTCTTGAATACTCAACTGTGTTCTGGGAAAAACGCAATG
AGCTCCAGGACATAGACAAGATTATGGCTCAGAGTGAAAGGGAGAGATAAGAATTACAGAG
AATAATTTGCATCAGAAAAGCACCTGACAAAAGATCAGATGGTACAGAGCATCTAGCAC
CTTTTCTTCAGCTGAGGATATCATGGTACTAGTATAACAGAGGGAAAAACTGTACTGAGG
AAGAGGATCATTCTGTACTTTGTGTGCTTGGAATCAACAAGGAAAATATTTATGATGAAA
TGCAATAGTGTAATCAAACTCTCCTCAGTTCAGATTT

Gene 719. >OTTHUMT00007007332 cDNA sequence

AAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCTCTGGCCCCTGCTTTTGTGAAGAAGCAG
GAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGA
CAGGACATCCAGCCCAAAGAGACCTCACCTGCTTTGTGAAATGGCCCCGCTATATCAGG
TTGCAATGGCAGAGATCCATACTCTATAAGCAGCTGAAAGTGCCTCCTGCGATTAAACCAG
TTCACCCAGGCCCTGGAAGGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCAAAATAC
AGACCAGAGACAAAGCAAGAGAAGAAGTGGAGGCTGTTGGCCAGGCAGAGTTGTGGGCA
AAGGGGACCTCCCATGAAGAGACTACCTGTCTTTGAGCAGGAGTTAACACCGTCACCA
CCTTTGTGGATAACAAGAAAGCTCCGCTGGTGGTGACTACACACGACATGGATCCCATTG
AGCTGACTGTTTTCTGCCTGTCTGTGTATATAAATGGGGGCCACTTGCTGCATTATCA
AGGGGAAGGCAAGACTGGGATGTCTAGTTCACAGGAAGACCTACACCACTGTGACTTCA
CACAGGTAACTCAGAAGACAAAGGAGCTTTGGCTAAGCTGGTGAAGCTATCGGGACCA
ATTACAATGCCAGATACGATGAGACCCACTGTCACTGGGACGGCAATGTCTGGGTCCCA
AGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAA

Gene 720. >OTTHUMT00007007334 cDNA sequence

FIGURE 1 (CONT'D)

CATTCTGTCTCAAGGCCACACCTTCCACCTGCAGTGGAGTCTTCCACACCCAGCGCTTC
GACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCACTGGATACCTAAGCCTTGGGAA
TGGACACGGCCGCCACCTCGAGAAGGGCCCTCCCAAAGGCAGAGGAGCCTGGGTCCCAA
GGGGACAAGGAGCCTGGTTTGGCCCCACCC

Gene 721. >OTTHUMT00007007336 cDNA sequence

AAAAATCGAACCTGTGGTGCAGGACAGGATCCTGTGCCCTATATGATTTCTCTGATTAC
AAACTCTAAGAATGGTTTACTGTGGAGCAGTTGGAAGACTATTTGAATTTTGCAAACCAC
CTCTTGTGGGTTTTTACACCATTAACTTTCTAATACTTCCTTACTTTACTATCTTTCTT
CTCTACCTTACTATTATTTTCTACACATTTATAAGAGAAAGAACGTATTAAAGAAGCC
TACTCTCATAATTTATGGGATGGTGCAGGAACACGGAGGCAAGTCTGTGGGATGGGCAT
GCAGCAGTTTGGCATGGTAAGCGAGGATGCTTTCATCTCTGTGTTGCCATTATGTGTGC
TGCATTGGAACCTGTGTTACCATGCCATTTTATTGAC

Gene 722. >OTTHUMT00007007337 cDNA sequence

GAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGACGCTGTGTGGGCTCAAGATG
AAGCTGAAGCAACAGCGAGTGTCAACCATCCTCCCTGAGCACCACAAGGACTTCAACAGT
CAGCTTGCCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTGGAAAAGGAAG
ATGGAGTGGTGGGACAAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
CGACGGCGAGTGTGCTCGTGTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAG
GATCCTGTCTATTAAAGATTCTTGGCCTGGGACAAAGGTCTGAGGGTGTGCGACAAGTAT
CTCCTGGCTATGGTCATAGTGTATTTTCAAGCCGGGCGGCCTCCCCTCCTGGCAATACCAA
TGCAATTCATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
CCCAAACAAAACATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCCTTGCTC
CGTAAGCGTCGGTTCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CAGATAGTCCTGTTCCAGAACTTTCGGTTCAGTTCTTCTGTTCCATGAGCTGCAGGGCT
TGGGTTTCCCCGGAGGAGTTGGAGGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGG
GCGCGAGATCGCGCTCGCCTTTCC

Gene 723. >OTTHUMT00007007338 cDNA sequence

CCCAGTGTCCAGGATGTAAGTAGAGAGCTACGGGCATGCAGAAGTTGGAAGATGAGGGAA
GGCATCACAGAGGCTGTGGGG

Gene 724. >OTTHUMT00007007356 cDNA sequence

AAAAGGAAGAGGGAATGTTTGGATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTGGCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGA
CGGCGAGTGTGCTCGTGTCTCCCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTG
GATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTG
GCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTCGTGTCTC
CCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCTATTAAAGACTCCTG
GCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTCATAGCGTAT
TTCAGCCGGGCGGCCTCCCCTCCTGGCAATACCAACGCATTATTTCTTCTGGCTCTC
TATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAAAACATCTTCTACTTC
CTGTACGAGGAGACCCGCTCTCATATAACCTTGCTCAGTGAGCTTTGGTTCAGTTATGC
CGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCCGGAAGTAT
CGTGAGCTTTGGTTCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCT
CAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCT
TGGGTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGG
GCGCGAGATCGCGCCACCTTTCC

Gene 725. >OTTHUMT00007007357 cDNA sequence

ATGGGGGGAAGCGGTTAAACCAGGGAGTCTTGAAGGGGACGACGCCCCCGGCCAGTCC
CTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGACCGGGGCGTGCTGAAG
GACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTTCGGTGCTAGTGAAA
TAGTATGGATACCTGGAACACTTGGACAGACCTTCGATTCTAATTACTTTAGGAAAAC
CCTCGGCTAATGAACTTGGAGAGGATATTACATTGTGGGGCATGGAGCTGGGCCTTCTG
AGCATGCAGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACG

FIGURE 1 (CONT'D)

CTGGGCTCCCCTCCCTTGATCCCCCAAACACCACTGTCTCTGTTCAAGATTGAGCTGCTT
GACTTCCTAGACTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCT

Gene 726. >OTTHUMT00007007358 cDNA sequence

GCCGCTCCTGCCGTGCATGTTGGGGAGCCAGTACATGCAGGTGGGCTCCACACGGAGAGG
GGCGCAGACCCGGTGATAGGGCTTTACCTGGTACATCGGCATGGCGCAACCAAAGCAAGA
GAGGGTGGCGCGTGCCAGACACCAACGGTCGGAAACCGCCAGACACCAACGACACCAAGG
CTCGGAATACACGCCAGACCACGACGGAGGGCGACCACCTCCCTTCTGACCCTGCTGCGG
GCGTTTCGGAATAACAGCAGTCCGGTGTGCTCTGATTGGTCCAGGCTCTTTGACGTAC
GGACTCGACCTTTGACAGAGCCACTAGGCGAAAAGGAGAGACGGGAAGTATTTTTTCCGC
CCCGCCCGGAAAGGGTGGAGCAACGTCGAAAGCAGCCAATGGGAGCCCAGGAGGCGGG
GCGCCTGTGGGAGCCGTTGAGGGCACTTTCCAGTCCCCGAGGCGGATCCGGTGTTCAT
CCTTGGAGAGAGCTGAGAGCTCGAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATC
GGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGA
AGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGG
ACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAAC
TCGAAGGCTTAACCTCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTC
GGGTTGAAACTTTTTGGCTTTTCGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATG
TCACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCAG
ATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGA
AGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGA
AACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAG
CCATGCTTCCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCT
CCTTGGAGGACAACGTGATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTA
GA

Gene 727. >OTTHUMT00007007377 cDNA sequence

ATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCT
ATCAAGGGGCTGGTGTACTCCAGCAACTTCAGAACGTGAAGCAGCTGTACGCGCTGGTG
TGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTC
AGTGCGAAGAAGCTGCAGCCGCACCTGGCCAAGGTGTATGAGTTGTTGGGAAAGGGCTTT
CGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTT
GGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATC
CAGGCCTGGTCCAGCCTCCCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTG
CTCCGTTTATGTAGTTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTCCGGCTTCCAGC
CTTGATGACTTACAAGCCCTCAAGGGGAAGCATTCTCCTGGACTCCTTGATGCCGGAG
CTGCTGGTGTGTTCCCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACAC
CTCATTCTGCAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCT
CCCATGTATCGATGCCTGTGCCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTC
TGAAGAACCAAGGGAAGATCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGG
CCACGCTGCTGGCCTGGGTTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTTG
CGGTCTCCCCCTTAGATCCGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCCT
GCAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGATCCCGGGGACAGGACACCTAGCC
CGGTGCGTCTGCATGCCCTGGCAGGGTTCAGCAGCGAGCCCTGTGCCACGCGCTCACTT
TCCCTTCCCTGCAGCGGCTCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAG
ACATGGTACCAGATGCGCTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGC
CTGCCCGGCCCCACCGAGGCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTT
CCCCAAGACCACGCTTAGCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTCGAGATGC
CG

Gene 728. >OTTHUMT00007007380 cDNA sequence

ATGTGTCCTTGGCGGCCTAGACTAGGCCGTGCTGTATGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTAGGCCCGGCCCGGGCCCCCTCG
GGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCGCC
AGCGACAGCAGCCCCGCCCCGGCCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCCCA
GGAGGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACATT
GCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTCAACCAGGAGGAGTGGCGGCA

FIGURE 1 (CONT'D)

ACTGGACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCT
AGTTTCTGTGGGGTATGATTATCACCAAGCCAAACATCATCATGGAGTGGAGGTGAAGGA
AGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCC
AGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGG
GCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTCTGGATGC
TGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTC
AGACAATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAATCTCTTTCAGCTCTGA
AACATCACACATG

Gene 729. >OTTHUMT00007007381 cDNA sequence

CAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCA
CCAGTCCCAGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAA
TGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATAT
GCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCTAGTCTCAT
GTTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTGAAGGCCATCTACT
TACGGAATTCCTCGCTGGAGAGGATATTACTTGCAAAGGAAAGGATTCGTTTTGTGATT
AAGAAACATGAGCTTCTGAGTTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCA
GGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTT
TTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAA
AAATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTTC
CGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGA
ATTAAATTTGTTATTAAAGACCAAGACTTCTGACTCACAGTACCACTGAAGTTACTCAG
CCAAGAACGAATACACCAAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAG
CAAGTGAAGAGATTTTAAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTA
AAAGTACCATATCCTGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCA
GAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGAATTCACGACTTGAAAGGATCGTC
CACGGGAGTAATAAAATCAAGTTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTG
CCTCCTGGGATGGCTAGTAAATAAACTAAAGCTTTGCAGTCCCCCAAAGACCACGA
AGTCCTGGGAGTAATTCAAAGGTTCTTGAAATTGAGGTACCGTGGAAGGCCCTAATAAC
AACAATCCTCAAACCTCAGCTGTTTCGAACCCCCGACCCAGACTAACCGTTCTAACGTTCCC
TTCAAGCCACGAGGGAGAGAGTTTTCTTTTGAAGCCTGGAATGCCAAAATCACGGACCTA
AAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAA
GCTGTGAAGGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGC
TTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAG
ATACTCAGAAACAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCCGAAATGTTTGAGACG
GCGATTAAGGAGAGCACCTCCTCTAAGAGCCCTCCCGAAAAATAAATTCATCACCCAAT
GTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTGAGGTGACAATTCAGAT
GATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAAGTGAAT
GACCTCTTTAGTCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCC
TACAGGAAAATCACAATTAACCCCTGGCTGTGTGGTGGTTGATGGCATGCCCCCGGGGGTG
TCCTTCAAAGCCCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCC
GAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTG
GTTGATCAGAGTGAGTCAAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTG
GAAGTTCAGCCACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAA
CCAGACCCACGTGG

Gene 730. >OTTHUMT00007007383 cDNA sequence

AGCGATGTCAACATTTCTACCTGCCACGCGTCGGTGAAGGTTGGGACTCGACTGGTGT
GATCACGATGGGAAAATCATCCAGGAAACCCCTACCCCCACCCAGAGGGACCACAGTC
AGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATT
AAGAAGGTACAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCAGTTTCTGAG
GCCTCCCCAGCCATGCTTCTGTACAGCCTGCAGAACTGACTCTAGAGGACCCCAACC
CCCTCCCCCAACCCCTGCTCCTAGGAGGACAACGTGATCACTGTATTGAGCTCCATCAAG
AATGGTCCAGGTTCTTCTAGA

Gene 731. >OTTHUMT00007006727 cDNA sequence

GCCACTTCCGGGAGTCGGAAGGAAAGCTGTGGGACCATCCTGGCAACCCCGGTGTTTGG

FIGURE 1 (CONT'D)

CTGGGTTCTAGCGTAGCCGTCTGTGTGGCCGGTGGGGGACCTGCGGTTCGGAGTGGGAGGG
CCAGTCTGCACCCAAGAGGTGGAAGAGGACGGGCTTTAGGCTGGAAGCGCCTTAGAGGAG
CCATTTTTCCAGGTGGGGCCCCAGGCAGAGGCTCCGACAGGGAGCCTGGCCATAGTCGCG
CAGCCGGGGAGGTGGAGCGCGTCCCAGACCCGAGCCCCGACCTCAGCCAAACCCATTCC
TTCTGCCCTTGGAGGCCAGAGGGGACTCTGAGCTCCGGAAAGGATGCCTGGTTTGCTTTT
ATGTGAACCAACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACCTCTCCAGATTAAAC
AGACCCCAACTATCTCTGTTTATTGGATGTCCGTTCCAAATGGGAGTATGACGAAAGCCA
TGTGATCACTGCCCTTCGAGTGAAGAAGAAAATAATGAATATCTTCTCCCGGAGTCTGT
GGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCTGGAGAT
ACTCTTAAAGATGATGATGATGATTGAGACTCTGATGGTGTATGGCAAAGATCTTGTGCC
TCAAGCAGCCATTGAGTATGGCAGGATCCTGACCCGCTCACCACCCACCCCGTCTACAT
CCTGAAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACTTTCTCCGGACCCAGAAGAT
CATCTGGATGCCTCAGGAACTGGATGCATTTTCAAGCCATACCCATTGAAATCGTGCCAGG
GAAGGTCTTCGTTGGCAATTTTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAA
AATCAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGATGCTGA
CAAGCTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCAGATTCTTCCCTTCTTACG
CCACATGTGTCACTTCATTGAAATTACCATCACCTTGGCTCTGTCACTTCTGATCTTTTC
CACCCAAGGTATCAGCCGAGTTGTGCCGCCATCATAGCCTACCTCATGCATAGTAACGA
GCAGACCTTGAGAGGTCTTGGGCCTATGTCAAGAAGTGCAAAAACAACATGTGTCCAAA
TCGGGGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCAC
AAACATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCACCGAAGGGTACTGAAGAGC
CTCACCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGA
AGGAGAAGGCCTTTGCTGCCTGAAAGTCTCA

Gene 732. >OTTHUMT00007007384 cDNA sequence

TGTCCCATCTGCCTGGAGGTCTTCAAGGAGCCCTGATGCTGCAGTGTGGCCACTCTTAC
TGCAAGGGCTGCCTGGTTTCCCTGTCTGCGCACCTGGATGCCGAGCTGCGCTGCCCCGTG
TGCCGGCAGGCGGTGGACGGCAGCAGCTCCCTGCCCAACGTCTCCCTGGCCAGGGTGATC
GAAGCCCTGAGGCTCCCTGGGGACCCGGAGCCCAAGGTCTGCGTGCACCAACCGGAACCCG
CTCAGCCTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGC
TCCCACCAACACCACCCGGTCAACGCGCTCTCCACCGTCTACAGCCGCATGAAGGTGGGG
AGTGAGGGTGCAGGGGCGGCTGGAGAGGCCGCGGGGACCAGATCCTGTGCTCTCTGGTGC
CATCACCTGGCACCAAAAGGATCCAGCTATCCTCGATTTCCCTGCAGCTCTGGGTGATCC
GCCGCGAGTTCCAGGAGCTGCACCACTGGTGGATGAGGAGAAGGCCCGCTGCCTGGAGG
GGATAGGGGGTCAACCCGCTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCC
AGGGAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAAACAAGGAAAGTCATGTC
CCTGCCTTCAAGGGTCTCGTAGATGGGTGGGGAGGCAGATGGTGAACTGTGGGTACCTAG
AACAGCAGAAGTTCACTCAAGCTACAGAAATACTAGAGGAGGGTAGCTCATGCCTGCAAT
CCCAGTACTTTGGGAAGCCAAGGCAGGAGGATTGCTTGAGGCCAGGAGTTTCGAGACCAGC
CTGGCCAATGTACCCCGGAGCCTCTCAAGTTGGACCCCTGCCACTGCCACCCACTCCTGG
AGCTCTCCAAGGGCAACACGGTGGTGCAGTGCGGGCTTCTGGCCAGCGGCGAGCCAGCC
AGCCTGAGCGCTTCGACTACAGCACCTGCGTCTGGCCAGCCGCGGCTTCTCCTGCGGCC
GCCACTACTGGGAGGTGGTGGTGGGCAGCAAGAGCGACTGGCGCCTGGGGGTATCAAGG
GCACAGCCAGCCGTAAGGGCAAGCTGAACAGGTCCCCGAGCACGGCGTGTGGCTGATCG
GCCTGAAGGAGGGCCGGGTGTACGAAGCCTTTGCCTGCCCCCGGGTACCCCTGCCCGTGG
CCGGCCACCCCCACCGCATCGGGCTCTACCTGCACTATGAGCAGGGCGAACTCACCTTCT
TCGATGCCGACCGCCCCGATGACCTGCGGCCGCTCTACACCTTCCAGGCCGACTTCCAGG
GCAAGCTCTACCCCATCTGGACACCTGCTGGCACGAGAGGGGCAGCAACTCGCTGCCCA
TGGTGTGCCCCCGCCAGC

Gene 733. >OTTHUMT00007006731 cDNA sequence

CCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCG
CTTCGTACCCAGCCAGCACTATGTGTACATGTTCTGGTGAAATGGCAGGACCTGTGCGA
GAAGGTGGTCTACCGGCGCTTACCGAGATCTACGAGTTCCATAAAACCTTAAAAGAAAT
GTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCAGC
TCCCAAGTGGTTTGACGGGCAGCGGGCCGCGAGAACACCAGGGCACACTTACCGAGTA

FIGURE 1 (CONT'D)

CTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGACTT
 CTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGA
 GACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCAT
 CCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCT
 GTCCACGGGGGACGTGGTGGAGGTCGTGGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTCA
 GATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCCTGA
 CGAGACGGAAGACCCTGAGCCCCAACTATGCAGGTGAGCCATACGTGCGCATCAAGGCCTA
 CACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTCA
 CAAGCTCCTGGACGGCTGGTGGGTTCATCAGGAAAGACGACGTCAAGGCTACTTCCCGTC
 CATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCGGGG
 GCGCGCGCCCCGAGGTTCGTCCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGGGAA
 GCGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCG
 CCAGGCGCGGCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCA
 GCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAACCG
 CTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCC
 CAGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTATATACGTGTTCTATAGAGCCTGG
 CGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATA
 AATGTTGCTTGAGTGGA

Gene 734. >OTTHUMT00007006732 cDNA sequence

CGACTTCCTCTTTCCAGTGCAATTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGG
 CCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCG
 CTTTCGTACCCAGCCAGCACTATGTGTACATGTTTCCTGGTGAAATGGCAGGACCTGTCCGA
 GAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAAGAAAT
 GTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGC
 TCCCAAGTGGTTTTGACGGGCAGCGGGCCGCGAGAACC GCCAGGGCACACTTACCGAGTA
 CTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTT
 CTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGA
 GACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCAT
 CCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCT
 GTCCACGGGGGACGTGGTGGAGGTCGTAGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTCA
 GATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCCTTCCTCGAGCCCCTGGACAGTCCTGA
 CGAGACGGAAGACCCTGAGCCCCAACTATGCAGGTGAGCCATACGTGCGCATCAAGGCCTA
 CACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCAATTCA
 CAAGCTCCTGGACGGCTGGTGGGTTCATCAGGAAAGACGACGTCAAGGCTACTTCCCGTC
 CATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCGGGG
 GCGCGCGCCCCGAGGTTCGTCCATCCGCAACGCGCACAGCATCCACCAGCGGTGCGGGAA
 GCGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCG
 CCAGGCGCGGCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCA
 GCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAACCG
 CTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCC
 CAGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTACATACGTGTTCTATAGAGCCTGG
 CGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATA
 AATGTTGCTTGAGTG

Gene 735. >OTTHUMT00007006736 cDNA sequence

GGGGGCGACGGCCGCTGTGACGCTGCGGCGGCGGGCGGGCGGGCGGCGGCTGAGGCGC
 GCGATCCCCGGTGTCTTGGGAGCAGTGCCCCGGCCCCCGCGCTCCCGCCGCCGATGT
 CGGGCCGGTCCGTCCGGGCGGAGACCCGAGCCGGGCCAAGGACGACATCAAGAAGGTGA
 TGGCGGCCATCGAGAAAGTGCGGAAATGGGAGAAGAAGTGGGTGACTGTGGGTGACAGT
 CCCTGAGGATATTTAAGTGGGTTCTGTGTACAGACAGCAAGGAGAAAGAAAGTCAAAAT
 CGAACAGTTCAGCAGCCCCGAGAACCTAATGGCTTTCCTTCTGATGCCTCAGCCAATTCT
 CTCTCCTTCTTGAATTCCAGGACGAAAACAGCAACCAGAGTTCGGTGTCTGACGTCTATC
 AGCTTAAGGTGGACAGCAGACCAACTCAAGCCCCAGCCCCAGCAGAGTGAGTCCCTGA
 GCCCAGCACACCTCCGACTTCCGCACGGATGACTCCAGCCCCCAACGCTGGGCCAGG
 AGATCCTGGAGGAGCCCTCCCTGCCCTCCTCGGAAGTTGCTGATGAACCTCCTACCTCA

FIGURE 1 (CONT'D)

CCAAGGAAGAACCAGTTCCACTAGAGACACAGGTCGTTGAGGAAGAGGAAGACTCAGGTG
 CCCC GCCCCTGAAGCGCTTCTGTGTGGACCAACCCACAGTGCCGCAGACGGCGTCAGAAA
 GCTAGCACCATCCCGGCCCTCCGCCTCCTGGCCCTGCCTCTATTTATTGCATTCTGGTTC
 TGGCCGCGCCGCGTTGCTGGGGTAAGGGCAAGCACTGGGGTCAAGAGCCTGCACACATGA
 GCCTTCCGGGCTGGAAGGCTGGCGTAGGACTTGGGGCTGTAGCATCATCTTCCTGACCCT
 GGCACCTGTGTCTACTTGTCTCCGAGAAGAGGAGCGCTCATGTCTTTTTTGCACCCCAAG
 TTGGCTGGAGCATCGGCCACCCCAAGATTTCATCTGTGACCTCCAGGCAGCAGTCTCTGCT
 CCAGAATCTCTGGACGGAGCTGCTGGCAGCTTCTGCGAGAAGAGAGAGATGTGGAAGGCA
 CCTTCTAGAAGAGAGCGTGCCTCAGGTTACTTGAACCTGAACGGAGACTGTAGACTCCCG
 GACTTTCCCTAGGACTGGGGGCCCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATT
 GGAGGGAAGGGAAGGGCTTTTCTCCACACAAGGGCAGAGAGTCCGTCTAGATTTCTTGCT
 GTCCTGCCAGCTCTGCCCATGCTGAGGTGGTCTACCTCTCACGGGCACCTAGCTGCT
 GACAGCCCTTTGTGGCCGCGCTCCCATCCCTGCCCTCAGCACACACATCTGCACACAC
 GCAGCTTTGTTCTCACCTCTACCTGTCACTCCAGCATCCCTGCCTCTTGTCAAACTGC
 CCCAGCAAGAATTTGAGGTTCTGACAACAGTACCCATCCCCACAGTACCCCTTCAGCTC
 AGTTTCTAGAAAGCTCCCTTTTCTTTGAAATCTGCATGTTGAATTGAACTTTGTGATTTT
 ATTTTTTGTTCAAAAAGTTTAAAGAAAATGGAAATGGGCAACAGTGAGTGAAGACATAT
 TTTAGCACTGAATAGAATATTTTTTAAATTAAGCTATTTGAAATATG

Gene 736. >OTTHUMT00007006748 cDNA sequence

CAAAGCCACAGGCAGGTGCAGGCGCAGCCGCGGAGAGCGTATGGAGCCGAGCCGTTAG
 CGCGCGCCGTCGGTGAGTCAGTCCGTCCGTCCGTCCGTCCGTCCGTCCGGGCGCCGAGCTCCC
 GCCAGGCCAGCGGCCCGGCCCTCGTCTCCCCGCACCCGGAGCCACCCGGTGGAGCGG
 GCCTTGCCGCGGCAGCCATGTCCATGGGCCTGGAGATCACGGGCACCGCGCTGGCCGTGC
 TGGGCTGGCTGGGCACCATCGTGTGCTGCGCGTTGCCATGTGGCGCGTGTGGCCTTCA
 TCGGCAGCAACATCATCAGTGCAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGG
 TGCAGAGCACCGGCCAGATGCAGTGCAAGGTGTACGACTCGCTGCTGGCACTGCCACAGG
 ACCTTCAGGCGGCCCGCGCCCTCATCGTGGTGGCCATCCTGCTGGCCGCTTCGGGCTGC
 TAGTGGCGCTGGTGGGCGCCAGTGCACCAACTGCGTGCAGGACGACACGGCCAAGGCCA
 AGATCACCATCGTGGCAGGCGTGTGTTCTTCTCGCCGCCCTGCTCACCTCGTGCCGG
 TGTCTGGTGGGCCAACACCATTATCCGGGACTTCTACAACCCCGTGGTGGCCGAGGCGC
 AGAAGCGCGAGATGGGCGCGGGCCTGTACGTGGGCTGGGCGGCCGCGCGCTGCAGCTGC
 TGGGGGGCGCGCTGCTCTGCTGCTCGTGTCCCCACGCGAGAAGAAGTACACGGCCACCA
 AGGTCTGTACTCCGCGCCGCGCTCCACCGGCCCGGGAGCCAGCCTGGGCACAGGCTACG
 ACCGCAAGGACTACGTCTAAGGGACAGACGCGAGGAGACCCACCACCACCACCACC
 AACACCACCACCACCACCGCGAGCTGGAGCGCGCACCAGGCCATCCAGCGTGCAGCCTTG
 CCTCGGAGGCCAGCCACCCCCAGAAGCCAGGAAGCCCCCGCGCTGGACTGGGGCAGCTT
 CCCAGCAGCCACGGCTTTGCGGGCCGGGCAGTGCAGTTTGGGGCCAGGGACCAACCTG
 CATGGAAGTGTAAACCTCACCTTCTGGAGCACGGGGCCTGGGTGACCGCCAATACTTGA
 CCACCCCGTCGAGCCCCATCGGGCCGCTGCCCCCATGCTCGCGCTGGGCAGGGACCGGCA
 GCCCTGGAAGGGGCACTTGATATTTTTCAATAAAAGCCTTTCGTTTTTGCA

Gene 737. >OTTHUMT00007006749 cDNA sequence

GGCAGCTGTGGCTGGAAGGAACTGGTCTGCTCACACTTGCTGGCTTGCGCATCAGGACT
 GGCTTTATCTCCTGACTCACGGTGCAAAGGTGCACTCTGCGAACGTTAAGTCCGTCCCCA
 GCGCTTGGAATCCTACGGCCCCCACAGCCGGATCCCCTCAGCCTTCCAGGTCTCAACTC
 CCGTGGACGCTGAACAATGGCCTCCATGGGGCTACAGGTAATGGGCATCGCGCTGGCCGT
 CCTGGGCTGGCTGGCCGTATGCTGTGCTGCGCGCTGCCATGTGGCGCGTGACGGCCTT
 CATCGGCAGCAACATTGTCACTCGCAGACCATCTGGGAGGGCCTATGGATGAACTGCGT
 GGTGCAGAGCACCGGCCAGATGCAGTGCAAGGTGTACGACTCGCTGCTGGCACTGCCGCA
 GGACCTGCAGGCGGCCCGCGCCCTCGTCATCATCAGCATCATCGTGGCTGCTCTGGGCGT
 GCTGCTGTCCGTGGTGGGGGGCAAGTGTACCAACTGCCTGGAGGATGAAAGCGCCAAGGC
 CAAGACCATGATCGTGGCGGGCGTGGTGTCTTCTGTTGGCCGGCCTTATGGTGATAGTGCC
 GGTGTCTGGACGGCCCAACATCATCCAAGACTTCTACAATCCGCTGGTGGCCTCCGG
 GCAGAAGCGGGAGATGGGTGCCTCGCTCTACGTGGGCTGGGCCGCTCCGGCCTGCTGCT
 CCTTGGCGGGGGCTGCTTTGCTGCAACTGTCCACCCCGCACAGACAAGCCTTACTCCG

FIGURE 1 (CONT'D)

CAAGTATTCTGCTGCCCCGCTCTGCTGCTGCCAGCAACTACGTGTAAGGTGCCACGGCTCC
 ACTCTGTTCTCTCTGCTTTTGTCTTCCCTGGACTGAGCTCAGCGCAGGCTGTGACCCCA
 GGAGGGCCCTGCCACGGGCCACTGGCTGCTGGGGACTGGGGACTGGGCAGAGACTGAGCC
 AGGCAGGAAGGCAGCAGCCTTCAGCCTCTCTGGCCCACTCGGACAACTTCCCAAGGCCGC
 CTCCTGCTAGCAAGAACAGAGTCCACCCTCCTCTGGATATTGGGGAGGGACGGAAGTGAC
 AGGGTGTGGTGGTGGAGTGGGGAGCTGGCTTCTGCTGGCCAGGATAGCTTAACCCTGACT
 TTGGGATCTGCCTGCATCGGCGTTGGCCACTGTCCCCATTTACATTTTCCCCACTCTGTC
 TGCCTGCATCTCCTCTGTTCCGGGTAGGCCTTGATATCACCTCTGGGACTGTGCCTTGCT
 CACCGAAACCCGCGCCCGAGGAGTATGGCTGAGGCCTTGCCACCCACCTGCCTGGGAAGT
 GCAGAGTGGATGGACGGGTTTAGAGGGGAGGGGCGAAGGTGCTGTAAACAGGTTTGGGCA
 GTGGTGGGGGAGGGGGCCAGAGAGGCGGCTCAGGTTGCCAGCTCTGTGGCCTCAGGACT
 CTCTGCCTCACCCGCTTCAGCCAGGGCCCCCTGGAGACTGATCCCCTCTGAGTCTCTGC
 CCCTTCCAAGGACACTAATGAGCCTGGGAGGGTGGCAGGGAGGAGGGGACAGCTTCACCC
 TTGGAAGTCTGGGGTTTTTCTCTTCTCTTCTTTGTGGTTTCTGTTTTGTAATTTAAGAA
 GAGCTATTCTACTGTAATTATTATTATTTTCTACAATAAATGGGACCTGTGCACAGGA
 Gene 738. >OTTHUMT00007006751 cDNA sequence
 GGCCAGGCCGCGCCCCGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCGTA
 CTCACTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTGCGAGCTC
 ATGGGGCTGTGCGGTGTTGCTTGGGGCTGCTGGCCCTGATGGCGACGGCGGCGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCCGGCCCTGGCCCAAGGAGCTTTTTT
 CCTGTTGGAATTGGGGAGCATCTGCAGTCATTTACCACATGCCAGCTTTGTGACTCAATT
 AAGTATCTTTTACAAAAGTGACTGGCTCCACTCCCCCGCACAGGACTCAACAGATGTTGA
 CTTCTCATCCCCGAGTTCTTTTCAAGGCAAAAAGCAAATGGATTTCCACCTGACAAATCTT
 CGGGATCCAAGAAGCAGAAACAATATCAGCGGATTTCGGAAGGAGAAGCCTCAACAACACA
 ACTTCACCCACCGCCTCCTGGCTGCAGCTCTGAAGAGCCACAGCGGGAACATATCTTGCA
 TGGACTTTTAGCAGCAATGGCAAATACCTGGCTACCTGTGCAGATGATCGCACCATCCGCA
 TCTGGAGCACCAAGGACTTCTCTGCAGCGAGAGCACCCGACGATGAGAGCCAACGTGGAGC
 TGGACCACGCCACCCTGGTGCCTTTCAGCCCTGACTGCAGAGCCTTCATCGTCTGGCTGG
 CCAACGGGGACACCCTCCGTGTCTTCAAGATGACCAAGCGGGAGGATGGGGGCTACACCT
 TCACAGCCACCCAGAGGACTTCCCTAAAAAGCACAAGGCGCCTGTCTCATCGACATTGGCA
 TTGCTAACACAGGGAAGTTTATCATGACTGCCTCCAGTGACACCACTGTCTCTCATCTGGA
 GCCTGAAGGGTCAAGTGCTGTCTACCATCAACACCAACCAGATGAACAACACACACGCTG
 CTGTATCTCCCTGTGGCAGATTTGTAGCCTCGTGTGGCTTCACCCAGATGTGAAGGTTT
 GGGAAAGTCTGCTTTGGAAGAAGGGGGAGTTCCAGGAGGTGGTGCAGCCTTCGAACTAA
 AGGGCCACTCCGCGGCTGTGCACTCGTTTGTCTTCTCCAACGACTCACGGAGGATGGCTT
 CTGTCTCCAAGGATGGTACATGGAACTGTGGGACACAGATGTGGAATACAAGAAGAAGC
 AGGACCCCTACTTGCTGAAGACAGGCGCTTTGAAGAGGCGGCGGGTGCCTGCGCCGTGCC
 GCCTGGCCCTCTCCCCAACGCCACAGGTCTTGGCCTTGGCCAGTGGCAGTAGTATTCATC
 TCTACAATAACCGGCGGGGCGAGAAGGAGGAGTGCTTTGAGCGGGTCCATGGCGAGTGTA
 TCGCCAACTTGTCTTTGACATCACTGGCCGCTTTCTGGCCTCCTGTGGGGACCGGGCGG
 TGCGGCTGTTTCAACAACACTCCTGGCCACCGAGCCATGGTGGAGGAGATGCAGGGCCACC
 TGAAGCGGGCCTCCAACGAGAGCACCCGCCAGAGGCTGCAGCAGCAGCTGACCCAGGCC
 AAGAGACCTGAAGAGCCTGGGTGCCCTGAAGAAGTGACTCTGGGAGGGCCCGGCGCAGA
 GGATTGAGGAGGAGGGATCTGGCCTCCTCATGGCACTGCTGCCATCTTCTCTCCAGGTG
 GAAGCCTTTCAGAAGGAGTCTCCTGGTCTTCTTACTGGTGGCCCTGCTTCTTCCATTGA
 AACTACTCTTGTCTACTTAGGTCTCTCTCTTCTTCTGCTGGCTGTGACTCCTCCCTGACTAG
 TGGCCAAGGTGCTTTTCTTCTCTCCAGGCCAGTGGGTGGAATCTGTCCCCACCTGGCAC
 TGAGGAGAATGGTAGAGAGGAGAGGAGAGAGAGAGAATGTGATTTTTGGCCTTGTGGC
 AGCACATCCTCACACCCAAAGAAGTTTGTAAATGTTCCAGAACAACTAGAGAACACCTG
 AGTACTAAGCAGCAGTTTTGCAAGGATGGGAGACTGGGATAGCTTCCCATCACAGAACTG
 TGTTCCATCAAAAAGACACTAAGGGATTTCTTCTGGGCCTCAGTCTATTTGTAAGATG
 GAGAATAATCCTCTCTGTGAACTCCTTGCAAAGATGATATGAGGCTAAGAGAATATCAAG
 TCCCCAGGTCTGGAAGAAAAGTAGAAAAGAGTAGTACTATTGTCCAATGTGATGAAAGTG
 GTAAAAGTGGGAACCAGTGTGCTTTGAAACCAATTAGAAAACACATTCTTGGGAAGGCA

FIGURE 1 (CONT'D)

AAGTTTTCTGGGACTTGATCATAACATTTTATATGGTTGGGACTTCTCTCTTCGGGAGATG
ATATCTTGTTTAAGGAGACCTCTTTTCAGTTTCATCAAGTTCATCAGATATTTGAGTGCCC
ACTCTGTGCCCAAATAAATATGAGCTGGGGATTAAA

Gene 739. >OTTHUMT00007007711 cDNA sequence

ATGGGTCACCAGAAGCTATGCTGGAGCCACCCGCGAAAATTTCGGCCAGGGTTCTCGCTCT
TGTCGCGTCTGTTCAAACCGGCACGGTCTGATCCGGAAATATGGCCTCAATATGTGCCGC
CAGTGTTTTTGTGTCAGTATGGGAAGGATATTGGTTTCATTAAAGTTGGAC

Gene 740. >OTTHUMT00007006772 cDNA sequence

GCGCCGAGCCGGTTTCCCCGCCGGTGTCCGAGAGGCGCCCCGGCCCCGGCCCCGGC
CCGCGCCCTCCGCCCCCGCTCCCCGGGCGGCGGCGGTGGGCGAGCTCGCGGGCCCGGC
CGCCCCCAGCCCCAGCCCCGCCGGGCCCCGCCCCCGTCGAGTGCATGAGGTTGACGCTA
CTTTGTTGCACCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGCGAGTTGCCCGTGTGT
GCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGG
CACGCAGACTGCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTGCGACCACTACTATGAG
AAGGATGGGCAGCTCTTCTGCAAGAAGGACTACTGGGCCCGCTATGGCGAGTCTGCCAT
GGGTGCTCTGAGCAAATCACCAAGGACTGGTTATGGTGGCTGGGGAGCTGAAGTACCAC
CCCGAGTGTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGACGGGGACACCTACACG
CTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCC
GTCATCGAGCAGATCCTGCCTGACTCCCCTGGCTCCACCTGCCCCACACCGTCACCTG
GTGTCCATCCCAGCCTCATCTCATGGCAAGCGTGGACTTTTCAGTCTCCATTGACCCCCG
CACGGCCCCACGGGCTGTGGCACCGAGCACTCACACACCGTCCGCGTCCAGGGAGTGGAT
CCGGGCTGCATGAGCCAGATGTGAAGAATTCATCCACGTCCGAGACCGGATCTTGGA
ATCAATGGCACGCCCATCCGAAATGTGCCCTGGACGAGATTGACCTGCTGATTAGGAA
ACCAGCCGCTGCTCCAGCTGACCTCGAGCATGACCTCACGATACACTGGGCCACGGG
CTGGGGCCTGAGACCAGCCCCCTGAGCTCTCCGGCTTATACTCCAGCGGGGAGGCGGGC
AGCTCTGCCCCGCGAGAAACCTGTCTTGAGGAGCTGCAGCATCGACAGGTCTCCGGGCGCT
GGCTCACTGGGCTCCCCGGCCTCCAGCGCAAGGACCTGGGTGCTCTGAGTCCCTCCGC
GTAGTCTGCCGGCCACACCGCATCTTCCGGCCGTCCGACCTCATCCAGGGGAGGTGCTG
GGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATG
GTGATGAAGGAGCTGATCCGGTTCGACGAGGAGACCCAGAGGACGTTTCTCAAGGAGGTG
AAGGTATGCGATGCCTGGAACACCCCAACGTGCTCAAGTTCATCGGGGTGCTCTACAAG
GACAAGAGGCTCAACTTCATCACTGAGTACATCAAGGGCGGCACGCTCCGGGGCATCATC
AAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCA
TCAGGGATGGCCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCACAAC
TGCCTGGTCCGCGAGAACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATG
GTGGACGAGAAGACTCAGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAG
CGCTACACCGTGGTGGGCAACCCCTACTGGATGGCACCTGAGATGATCAACGGCCGAGC
TATGATGAGAAGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCGAGATCATCGGGCGG
GTGAACGCAGACCTGACTACCTGCCCCGCACCATGGACTTTGGCCTCAACGTGCGAGGA
TTCCTGGACCGCTACTGCCCCCAAACCTGCCCCCGAGCTTCTTCCCCATCACCGTGC
TGTTGCGATCTGGACCCCCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAG
ACCCTCCGCATGCACCTGGCCGGCCACCTGCCACTGGGCCCACAGCTGGAGCAGCTGGAC
AGAGGTTTCTGGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTGCCCCACCTGAGGTC
CCCGACTGAGCCAGGGCCACTCAGCTGCCCCCTGTCCCCACCTCTGGAGAATCCACCCCCA
CCAGATTCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTC
AGAGCCAGGCCCTGACTTGCCCTTCTCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCT
GCCGTGGCCCAGAGCCGGCCAGCTGCACACACACACCATGCTCTCGCCCTGCTGTAACC
TCTGTCTTGGCAGGGCTGTCCCCTCTTGCTTCTCCTTGTCATGAGCTGGAGGGCCTGTGTG
AGTTACGCCCTTTCCACACGCCGCTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTG
GTCCATAGCTCCCTGGAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACG
CTTGGGTGCGTGGGAGGGCGCACATCAGGGCAGAGGCCAAGTTCAGGTGTCTGTGTTCC
CAGGAACCAAATGGGGAGTCTGGGGCCCGTTTTTCCCCCAGGGGGTGTCTAGGTAGCAAC
AGGTATCGAGGACTCTCCAAACCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAG
GTCCCAGTGGCTGAGCAAACAGCCCCTTCTCTCGCTTTGGGTCTTTTTTTTGTTCCTTT

FIGURE 1 (CONT'D)

CTTAAAGCCACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAG
GGAGCGTGGAGCTGCGGTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGA
GGATAGGCACAGTGGACCGGGCAGGTGTCCACCAGCAGCTCAGCCCCTGCAGTCATCTCA
GAGCCCCTTCCCGGGCCTCTCCCCAAGGCTCCCTGCCCCTCCTCATGCCCCTCTGTCCT
CTGCGTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGC
TGCAGCAGCAGCTGCCAGGGGCTTGGGATTTTTATTTTTGTGGCGGGCGGGGTGGGAGGG
CCATTTTGTCACTTTGCCTCAGTTGAGCATCTAGGAAGTATTAAACTGTGAAGCTTTCT
CAGTGCACCTTTGAACCTGGAAAACAATCCCAACAGGCCCGTGGGACCATGACTTAGGGAG
GTGGGACCCACCCACCCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCA
GAACAATAAAATAAATTCCGTACTCCCCACCC

Gene 741. >OTTHUMT00007006787 cDNA sequence

ATGCTCATTGCTGCCCCATCCCTCTGGGCTGGAGGAGCAAACGCCTGGAGGCTGAAATGC
AAGTTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGA
TTCTAGGTCTCAGGCCTGGGCTTCTCCCCAAGACCACTCTGGGTCTCATCAAACCTGC
CAAGAGACTCCTAGTGGCAGAGTCTTGGTTATGTGAGCACCCCCTCAAGGTGTACACTTC
ACCACCTCGGAGGCTATATCAGCAGCCGCTTCCGCTGGGGAGGACAGAGCCAGGATTGGC
CCCTCGGAGCCCCAAGCCTGCGGCTTTGATAAGAGACAGGCCTCCCACTGCTCAAGACTG
GGGCCGCCCTTTCCCATTTCTGTGTCAGCCGCTGCTCTCTAGCCACCCACTGGCTGACC
ACTGGTCCTTCTCAGCCAGCGGGACCAATGGGCTCCTTGGGCTGTGGTCACCATGGTGAC
CGGAGCTGGGCACTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCC
CTGAACGTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCCAGCCCATCGGCGTGACCAAG
ATCGCCAAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTATGCTGTCC
ACGTATCAGACAGACTTCATCCTGGTGCAGCGAGCGGGACCTGCCCTTTGTCACCACACA
TTGTTCATCAGAGTTCACCATCCTGCGGGTTCGTCAATGGCGAGACCGTGGCAGCCGAGAAC
CTCGGCATCACCAATGGCTTCGTGAAGCCCCAAGCTGCAGAGGCCAGTCATCCACCCACTG
TCCAGCCCAGCAACAGGTTCTGTGTCAACAGCCTGGACCTGACACGCTGCCTGCTGTT
GCCACACTCCTCATGGATGTGATGTTCTACTCCAATGTGAAGGACCCCATGGCCACTGGG
GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
GTGATGGACGTGCAGACGCAGCAGTTTCTAGTAACTTGCTGTTTCAAGCGCATCCGGA
GAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCCCTGGGGTTTGAAGTGTGGCATCGTG
GCCCAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCCAGCCTACTACATCAGTACTTTC
AAGTTTGTATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTTCATCAGTGCCTGAAG
GGCCTGGGCCCCGACTCCCAGCAAGACTGCCAAGAGGGCCCTGTCCAGACCCCTCCCCACA
AGCACTCAGTCCTTGGGGGAGGAGGGAGGGTCCCAGGAGACCCACCAGCCTGGAGCACCA
GCTCCTGTCCCCCTCGGCTCTCCCTGGACCCGACTTGGGCGACAGGCAGTGGGAATCGGGA
GATGTACAGGAGCCTGGGCCCTCTCTTCTGAAGGGAAGCTAGGAGCAGAGATCTGTTAC
AAGACGCTGGAGCCGCTGGCACCCACATGGGAACTCCCAACCAACAGCTGTAG

Gene 742. >OTTHUMT00007006793 cDNA sequence

AGGAGGAGGAGGGTGAAGAGAAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCCCCC
CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCCGCCCTGCCGCGGTCACCCCGGCC
TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
GCCATGCGGCGGTGACAGGAGCGCGACCGACACGACGCGGCCCTCGCCCCCTCTCGCCT
CCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCG
CGGCCCACTCGCCTCCCTCGGCACCCCCCGGCCCGGAGCTGCCTGGAGGCGGCCGCA
CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTTC
GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
CGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGGGCTTCCGGAAGGTGT
TGCCTTTAAACACCCCGAGAACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTTATTTCATTATTAAGAGACCTTTTTTATAGAGCCAAAGAAGCATGTAGGTGG

FIGURE 1 (CONT'D)

TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTGGAAATGGCAGCTGT
GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
TTCTGAAACTGATGATGTTGATGAAAAACAGCCCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
ACATGTCCCTTCAGAAACAAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGA
TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGA
ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCAGTCTCATGTTGAAGATCT
TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCC
TCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTGTTTTGTGATTAAGAAACATGA
GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAA
ATTTGCGGAAGCCTTGCGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
ACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTTCGAAGTCCCTC
ATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
TATTAAGAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
TACACCAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
GATTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAGTACCATA
TCCTGTGTTTTGAATCAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCC
CTTCCGAAGCCCTACCTGGTTTTGGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAA
TAAAATCAAGTTGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTGCCTCCTGGGAT
GGCTAGTAAAATAAACACTAAAGCTTTGCAGTCCCCCAAAGACCACGAAGTCTGGGAG
TAATTCAAAGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCA
AACCTCAGCTGTTTGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGT
TGAAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGT
GCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
CAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCCCGAAATGTTTGAGACGGCGATTAAAGGA
GAGCACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATCACCCAATGTTAATACTAC
TGCATCAGGTGTTGAAGACCTTAACATCATTACAGGTGACAATTCAGATGATGATAATGA
AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG
TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAAT
CACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCCGGGGGTGTCTTCAAAGC
CCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
ATTACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAG
TGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCAC
GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGAC
CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
TTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
AGAGTGAAGTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA
GCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTTATGTA
CTCAGCAGAGCCTTGAGTTACGGTGTATTATTTCCAATCAAGTGAAGATATCTCCTACTT
CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTTCAAGTTCT
TTAGTTTTTCTATTTGAAAAAATAATCATTTAAATGATCCTTTGTTTACGGCTCTCCT
TAATGACTGAGTGAACAGTTCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCT
CTCATGGTTCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACA
GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
CTTTTACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG
ATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTCGCCGTGGCCGGCATTATTT

FIGURE 1 (CONT'D)

CCTAGTTCTTCTTGTAAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
AAGGATGCAACCTCTGACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTT
CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
AGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAA
ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
AAAATCCATCCATGCCTTTTCACACACTAA

Gene 743. >OTTHUMT00007006797 cDNA sequence

ATGGACTCACCCACACCCCATGACCCAGCAGCTCCGCTCCTGGTGACTGTTCTAGAGAGT
GTCCAGAAGAAGACCAAGGACAGAACAGAGACTAGGTTTGGTGAGATGGGACAGATTTTG
GGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCGGAGCCCCCAGCGGAGC
ACCTCAGGGTACCCCTCCAGGAGGTGGTGGATGATGAAGTGTGCGGACCATCACCTGGG
GTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGAT
GAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCGTGAGCCTGAGGAGACCTGGGTGGCG
GAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTCGTGTCTCCCT
GAGTACTACGAGGCCTTCAACAGGCTGCTTGGTAGGAGGACACCCAGAGAGCACCTCCA
ATCCTGTTCTTTCTAAAGAGGAAACTTCCAATAACCACACTTTTTCCAATGGGAAAAATAT
GCCCCAGTGGATCCTGTCAATAAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTG
GACAAGTATCTCCTGGCTATGGTCATAGCGTATTTTCAAGCCGGGCCGGCCTCCCTCCTGG
CAATACCAACGCATTCAATTTCTTCTGGCTTATCTGGCCAATGACATGGAGGAGGACGAC
GAGGCCCCCAACAAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCC
TTGCTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAC
TGCTCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGC
AGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAGAACACCGGACCCAGGGGAGATGTGGAT
TTTCAGCAGGAACCTTTATTCCAATGCTAATGGCAGACATCAGGAAGGAGGAGGAACCA
TTTGTGCAGATCATCTAG

Gene 744. >OTTHUMT00007007749 cDNA sequence

AAAAAAGTAAAGAAAAACCTCTTGCAAGTATGATTGCTTCTCCTTATGGGAAGCCCATTTA
GATAACCTGGAAGTTGAACCCAGTGAAAACAGTACTTGAATTTAATCAGACACAGGAAGA
ATGTGTGGTCAAGCTTGTGAGAACACACTATGAGTGTAAACAGAAAACTAGTACCTTGAG
CAGGGAAGTACATGGCTTTTAGTAACAGCATGGGAACCTTTTCTGGTTACATGGAATAATT
CAGACACATTAAAGAAAAGCCAAGTGTACAGAATCAAGTTATACTGGAGGAAAACATTGCT
TTTGTAGGCCATCAAGACAAACATTTTAGAGTTAGACTTTTAAACAGCAGAGTTATAATCAG
AGGAAAAAAGTGACAGGAGCTGATGAAAAAGTTAAAAGAGAGAGTTATCACCTCAATCAA
GATTAAAGGTGTACTTTCTCAAGGGGAGAAAGAGTTGAAAGCAGTGATGTATGACATGCA
GTAAGATGCAGCAAAACATTAAACTTCTGAGATATAAGTCTGAGAAGCTTTAAGAGGAAAA
CTCTACCTCAAGAAATGAAATTACCATCCTAAGTGAAGAAGACAGCTTTACTAACGTGAA
ACTA

Gene 745. >OTTHUMT00007007750 cDNA sequence

CCCCACCAGGCCAGCTCTTGCCCTCAGCATGGCCGCCTCAGGCCAGGCTCGTGTTCTGCC
TGTGGGCAGCCTCCACGGGCCGGCTCTCGCCTCTGGCCATCCTCTCCAGGCCCAGAAGT
GTTTCCAGCCAGCCTCTCCAGGCCAGCTCTCCTTGCCGGCTGCGCCTGCCGGCCCAGCT
CCTGCCTCGCAACAGCCACGTTTCGGCCCAGCTCCTGCCAGCTCCTGGCAGCCTTTGTAG
GCCCCAGG

Gene 746. >OTTHUMT00007007754 cDNA sequence

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTT
CTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACAGTCAGCTGG
GCTGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACTTGGCACAGTAACGATGAC
GATGTGTACAGGGCGCCTCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCT
CGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTA
GGAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCAGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGT
TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCT
CTAAGTAACAGGAGAATTGAGTGGACGTTGCTGATCAAGCACTGGATAAAGACAGGGAT
GATCCTCCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGG

FIGURE 1 (CONT'D)

GCTCGTCCTGCTACAGACACCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTT
 GGAGACAAGTATCGAGATCGTTATGATTGAGACCGGTATCGGGATGGGTATCGGGATGGC
 CCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGA
 GACTATGATAGAGGCTATGATTTCCCGGATAGGCAGTGGCAGAAGAGCATTGCGCAGTGGG
 TATCGCAGGGATGATGACTACAGAGAAGGCAGGGACTGCTATGAAGACCAATATGACAGA
 CGGGATGATCGGTTCGTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGCGTGAT
 GATAGAGGTCCCCCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTCGGAGTACTCCTA
 AGGAAGATGATTCTCTGCTAGTAACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAG
 GGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACGAAGGA
 ACAAGAGAAGTTGCAGCGTCAGCTGGATGGGCCAAAAGTAGAACGACGGCCTCGGGAGAG
 ACACCCAAGCTGGCAAAGTGAAGAACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGA
 GTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAATGCATGAAGGAGAGAGAGTGA
 GAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAACCTCTAA
 ACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGC
 TTGGGTGAAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCA
 ATCCCCCTACAAGTGGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGG
 AAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCCAAAGGCCAACTGGGAACTC
 TAGCCGTGGTCCAGGAGACTGAGGGAAACAGAGACCACTGGAAGGAGTCAGATAGGAAAGA
 TGGCAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCC
 AGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTGTTGATGGTGAAGATGA
 AAATGAGGGAGAAGATTATGCCAAA

Gene 747. >OTTHUMT00007007758 cDNA sequence

AAACTGAAGCTACAGAGTGGAGAGATAACAAAAGAAGAGAAGCAGCCCTGCATCAGCGCA
 GTCCATCCACGCAGCATCCCTCATCCTTCCCCTAGGCAGAGGCCAGAGGCTGTTTCAC
 CTCTGATTCTTCCACAGCCTTACCTGGCCCCAAATCCTAGCACCATGGATTCTGAAAGTAA
 CGATAAGAACAGAAATTCATCAGATAAATGGAGCCCCCTTTGAATCAAGATCCCTCCAGGA
 GTATGATTTCAGGAAGTTTTGCCACCCAGGCCTACTGAGGAGGCCAAAGCCCTCTCCAATG
 GAATGGATCTGTGTCCAAGCCACTCAAATGGCTGAAGACCCATCATGACCCCTGAAGCTGC
 CCAAGATGGACAGCCAGTTATGGAAGGGAGGAAACAGCTGCCATGGACCCATAATCTCA
 AACCTGTGGTTTTGAATATGCTCACTCTCACTGGCTTC

Gene 748. >OTTHUMT00007007780 cDNA sequence

ATGGTGAGGCATTTGGCTACCTTGAAAGTCATCTTTACTCCCTGTTACCCTCACTTTATT
 GAATTTCTTTACTTTGACTTTTCAAGAGCTCTGGGCAGAAATCACATATTAGTTTGGAGGAC
 TTTGTTATTTTATTCAAGTTAAAGTATAGGGTT

Gene 749. >OTTHUMT00007007782 cDNA sequence

CTTTATATACAGAATATTTCTTCCCCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTAT
 AGTCAAGAGGGATATGACAGATCTTCAACCATGTTAACATTGGGGCCTTTTAGAAATTCT
 AATTTAACTGAACTGGGTCTGCAAGAAATAAAGACTATTGGTTATACGAGCCCTAGGAGT
 AGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAACCTGTGTGAGACCTTCAGCTA
 GGACTCGATGCAGTTGAGCCAACTGCCCTACATAAAACCTGGAAACGCCTGCACATGAC
 AGGGCTGAGCCCAACAGCCAACTGGACTCGACTCACTCTGGACGGGGCACAATGTATTCT
 TCCTGGGTAAAGAGCCCTGACAGAACAGGAGTTAACTTCTCAGTGAACCTCAACTTGAGG
 GACCTGACACCCTCGCATCAGTTGGAGGTTGGAGGAGGCTTCCGAATAAGTGAGTCAAAG
 TGCCTGATGCAGGATGATACTAGAGGCATGTTTATGGAAACAACTGTGTTTTGTACTTCC
 GAAGATGGGCTTGTATCTGGTTTTCGGACGGACTGTTAATGACAATTTGATCGACGGGAAT
 TGCACACCCCAGAATCCACCACAAAAGAAAAGGTTTCTCTATTAGAATACCGTAAGAGA
 CAACGTGAAGCTAGGAAAAGTGGCTCTAAGACAGAGAACTTTCCACTCATTAGTGATCA
 CCCCATGCAAGTGAAGCTTGAGCAACAATGGTGATGGCTGTGCCAGCAGTAATGACAAT
 GGGGAGCAGGTGGACCACACTGCTAGCCTACCTTTACCAACACCAGCTACAGTTTATAAT
 GCCACTTCTGAAGAACTAGCAATAACTGCCCTGTTAAGGATGCTACTGCTAGTGAGAAG
 AATGAACCAGAAGTTCAATGGACTGCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGT
 TATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGATAGTGGGGGAGAATCA
 CCATGTGTCTCATGTTACCGAGTCATGTTGAGTCTTCACTTCATCTCATTCAAATCAC
 ATACCCAGTTGCAAGCTAAGGGCCCAGTCCCTTCTTTGAGTGAACCTTATGGAAGACCTT

FIGURE 1 (CONT'D)

GATCCTGAAAATCCAGAACCCACAACCTACGAATGAATGTCCATCCCCAGATACTTCTCAA
AATACTTGTAAAAGTCCTCCAAAATGAGCAAGCCTGGTTACCTGGATCTGTAATTCCT
GCTCAAGCACACGGGAAAATATTACAAAACAGATCCCCAATGGGACTCCACAGTTAGT
GCATCCGAAGCTGAAAATGGTGTTCACCTAAAAACAGAGCTCCAACAAAACAGCTATCA
AATAACAACCAAGCACTTTCAAAGAATCATCTCCTCAGACACACGTTTCGTAATTCATCT
GAGCAACTTTACAAAAGCTGCCTTCTGTGCCAACAAAGTTGCACTGTCTCCATCACCT
CACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGTACAGCATGGTTATCTT
TCACCAAAGCCTCCTTCACAGCAGTTAGGATCTCCCTACAGGCCTCATCATTACAGTCA
CCTCAAGTTGGAACACCTCAGCGAGAGCCTCAAAGAACTTTTATCCAGCAGCACAGAAC
CTTCAGCCAATACTCAGCAGGCAACTTCTGGAACATTATTTACACAGACACCCTCAGGA
CAATCTTCAGCAACATAC

Gene 750. >OTTHUMT00007007787 cDNA sequence

GAATTTCGCCTGCATCTACTCCACCCTCATTCTTCACTATGAACGAGGTGACCGTCACAGA
GGATAAATCAAGGCCCTAATTAAAGTAGGTGGTGTAAATGTTGAACCTTTTCGGCCTGGT
TTGTTGGCAAAGGCCCTGGCCTATGGTGACATCGAGAGACTCATCCTAATGTAGGGGTTG
GTGGACCTGCTCCAGCAGCTGCTGCTGCATCAACAGTAGGTCCTGCCCTGTCCAGAGCAG
CTGCTCCAGCTGAGGAGAAGGAAGTGAAAAACAAAGAAGAATCTGAGGAGTGTGATGATG
GCATGGGCTTTGGTCTTTTTTGAC

Gene 751. >OTTHUMT00007007788 cDNA sequence

TCAGTTGCCCCGACATGTGAGTGCCATTCTTGGGGCATTCTGCAACGGCAGCCCTCAGG
CCTGCTGCGTCTAGAAGAACAAGCTTGACAAACATATTGTGGTCTGGTTCTGGTCAAGCA
AAATTCTTTAGCACCAGTTCTCTCACACCATGCACCTGCTGTCAACCAGCATGCGCCCTAT
TTTAAGGGTATAGCCGTTGTCAATGAAGAGTTCAAAGACCTAAGC

Gene 752. >OTTHUMT00007007791 cDNA sequence

GCTCTGCGCTACCCTATGGCCGTGGGCCTCAACAAGGGCCAAAAGGTGACCAAGAACGTG
AGCGAGCCCAGGCACAGCCGCCCGCGGGCGTCTGACCAAACACACCAAGTTTGTGCGG
GACATGATCCCGGAGGCATGTGGCTTCGCCCCGTACAAGCAGCACGCCAAGGAGTTACTG
AAAGGTCTCCAAAGACAAACGGGTCTCAAGTTCATCAAGAAAAGGGTGTGGGCGCACAT
CCGCGCCAAGAGGAAGCGGGAGGAGCAAAGCAACGTCTGGCCGCCATGAGGAAAGCCGC
TGCCAAGAAAGAC

Gene 753. >OTTHUMT00007007792 cDNA sequence

AGTGCCAACGAGGACCAGGAGATGGAAGTAGAAGCATTACGCTCTATTTATGAAGGAGAT
GAAAGTTTCCGGGAATTAAGTTTCAAGTTTCTTTTCAATATAGGATAGGTGAAAATGGTGAT
CCCAAAGCCTTCTTAATAGAGATTTCTGGACAGAAACATATCCCCAAACACCTCCAATT
CTATCTATGAACGCTTTTTTTTTTAAACAACACCGTATCATCAGCTGTAAAGCAGAGTATAT
TAGCCAAGTTACAGGAAGCAGTAGAAGCTAATCTTGGAACCGCTATGACCTGTACATTGT
TTGAATATGCCAAAGACAATAAGAGCAGTTTATGGAGAATCACAATCCCATTAATTCCAC
AACATCGATAAGCAATATCATCTCAATTGAAACTCCTAATACAGCCCCATCAAGTAAGAA
AAAAGACAAAAAGAATAACTTTCAAAGGCCAGAACGTAAGCTGGCAGACAAAACAGA
TCACAAAGGAGAACTTCTCGAGGCTGGAAGTGGGTGATGTTGTGAAGCATTTAAGCAA
AACTGGCTCTAAGGATGATGAG

Gene 754. >OTTHUMT00007007794 cDNA sequence

GTGTGGCTTGTGCTTTGGATCGTAATGCTTACCTATGCTACTTAAGTTACATACCCTGTG
GCCTTTGTGGCCAGGACTGTGGGCTACTACCTGGAGTGATTGTTAGGGGAAAGGACCCA
CAGCCTGTGCAGGAGGAAAAAGCATCTCTGAGTACAGGGTGGATGAGCTGGATGAGCTG
CCGGGCAAGAGCCACGCACACCCAGGTGGTGAGTCTTAAGGATAAGGTGGAATTTGCCCC
ATAGCTGTCTGGACAGAACTGCCAGAGAAGAAT

Gene 755. >OTTHUMT00007007797 cDNA sequence

CTGACCTCGTGTCTGTGGTCTAGGCACCAGGCAAGTATTCGGGGTGCCCTTGAAAG
CCCCAGGGTGTGACAGCCAGGGTTTATGTTGGCCAGGTCATTGTGTCTATCCGTACTAAG
AGCAGAACCATGAGGGTGTGATTGAGGCCATATGCAGGGCCAAGTCTAAGTTCCCTGGCT
GCCAGAAGATCCACAGCACAAAGCAGCGGGCCTTGACCAAGTTCAATGTGGAAGAAATCG
ATCCACGTGGTGGCTGAGAAGCAGCTCATCTGGCATGGCTGTGGG

Gene 756. >OTTHUMT00007007007 cDNA sequence

FIGURE 1 (CONT'D)

ATGACGACACTAAACATGAAATTGGAAAACGACATGTATGATTGGCTCTACAAGCTGGT
ATCAGCCCACCTTCAGCTCACCCTGTTTTTAACTGTGCACCGAACGTTTTGCTTGGGATG
CACTTATTTGGCCATTACCCAGCACATGACGACTTCTATCTCGTAGTGTGCAGTGCCTGT
AACCAGGTCGTCAAGCCACAGGTTTTCCAGTCGCACTGCTGTTTTAGGAGCTGTAGTCCT
TCTGCTGAAATCCGCAGTCCTGTGAGAACAAATGAGAGAAAACCTGCAACTTGTCTCGGT
CGATGGGACTAG

Gene 757. >OTTHUMT00007007028 cDNA sequence

AACATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGAGAGCCGCCAGGGC
TCTATCAAGGGGCTGGTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTG
GTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCCGTGATCTCCAGCGCCGGCCTC
CTCAGTGCAGAAAGCTGCAGCCGCACCTGGCCAAGGGTGCTAGTGTATGAGTTGTTGGG
AAAGGGCTTTTCGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACCAGGCGAG
GTGTTGAGTTGGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGG
AAGTGGGATCCAGGCCTGGTCCAGCCTCCCAGCTGCCTCGATTTGTGCGTGTGAACACTC
TCAAGACCTGCTCCGTTTTATGTAGTTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTCTG
GGCTTCCAGGCTGGATGGAGTGCCCTGGCGCGATCTTGGCTCACCGCAACCTCTGCCTCC
TGGGTTCAAGCGATTCTCCTGCTTCAGCCTTCTGAGCAGCTGGGATTATGAAGGGGTGGC
CTGCCCCCTCCACATCTGTGGGATATCTCATCAGCCTCGATGACTTACGAGCCCTCAAGGG
GAAGCATTTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGACAGA
TCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAGCTG
TCTCCCAGCCATGCTGCTGGACCCCCGCCAGGCTCCCATGTATGGATGCCTGTGCCACC
CCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTTTGC
CTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGGGCTGGCGT
CTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATCCGCGCTA
TCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGAGTGGCTCGGGTATGCCGAGCAG
ACAGCTGGAGGAGCCCGGGGCAGGGACACCTAGCCCCGTGCGTCTGCATGCCCTGGCAGG
GTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGTCTA
CTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCGCTGCAGCA
GAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAGGCCTGAG
CACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCCAAGACCACGCTTAGCGGTGG
CTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGGCCAAAGC
ATCAGCACCAAGACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGAGCAAAAAGCTG
CAGCCGGTGCTTGACACCCGCTTGACATAGCAGAGGCTCCGGGCTCACTCCTTCCTGG
TGGGAAAGGAAGATGCCTGTCTCTCCGTGGAAGACCTGGGCCCCACCGCAGGCAGCA
GTTTGCGTTTTTGAAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTGGTGAGCAA
AAGTGTTCCTGCAGAAATAAATGCAGAACGTACTCT

Gene 758. >OTTHUMT00007007030 cDNA sequence

TAAAGGCGCGCGGAACATGGGGCTGTATGCTGCAGCTGCAGGCGTGTTGGCCGGCGTGG
AGAGCCGCCAGGGCTCTATCAAGGGGTTGGTGTACTCCAGCAACTTCCAGAACGTGAAGC
AGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCTGTGATCG
CCAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTGGCCAAGGTGCTAG
TGTATGAGTTGTTGTTGGGAAAGGGCTTTTCAGGGGGTGGGGCCGATGGAAGGCTCTGT
TGGGCCGGCACAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTG
TGAGCCGGAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCCAGCTGC
CTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCA
AGAGACAAGGTTTCTCCTATCAGGGTCCGGCTTCCAGCCTCGATGACTTACGAGCCCTCA
AGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCCAGCA
CAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCA
GCTGTCTCCAGCCATGCTGCTGGACCCCCGCCAGGCTCCCATGTATCATGATGCCTGTG
CCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCT
TTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCGGGCTG
GCGTCTCTTGCTGTGAACTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTCGGATCCAC
GCTACCATGAGGTCCACTACATCCTGCTGGATCCTTCTGAGTGGCTCGGGTATGCCGA
GCAGACAGCTGGAGGAGCCCGGGGCAGGCACACCTAGCCCCGTGCGTCTGCATGCCCTGG

FIGURE 1 (CONT'D)

CAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCG
TCTACTCCACGTGCTCCCTCTGCCAGGAGGAGAATGAAGACGTGGTGCGAGATGCGCTGC
AGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCTGGCCCCACCGAGGCC
TGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCCTGAGACCACACTCAGCA
GTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGGTGCCAAGCTCAGCCTCACAGGCCA
AAGCATCAGCACCAGAACGCACACCCAGCCCAAGAGAAAGAAGAGACAGCAAA
GAGCCGCAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGGCTGACTCCT
TCCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCTGGGCCCTCACCGCAG
GAAGCAGTTTGGGTTTTGAAAGGTTATTGGGTCCCTTCCTTGGGCTGTGTTCTTGCTGGT
GAGCAAAGTGTTGCCTGCAAAAATAAAATGCAGAACGTACTCTA

Gene 759. >OTTHUMT00007007045 cDNA sequence

ATGGACAGAACGGAGACTAGGTTCCGTAAGAGGGGACAGATTACGGGAAAGATCACGACC
AGCCGTCAACCGCACCCCAAGAATGAGCAGAGTCCCAGCGGAGCACCTCGGGGTACCCC
CTCCAGGAGGTGGTGGATGATGAAATGTTGGGACCATCAGCCCCTGGGGTAGATCCCAGC
CCCCCATGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAGTGGTCAGATGAATCTGAGGAG
GAGCCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGT
GGGCTCAAGATGAAGCTGAAGCAACAGCGAGTGTTCATCCATCCTCCCTGAGCACCACAAG
GACTTCAACAGTCAGCTTGCCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTTGC
TGGAAAAGGAAGATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGG
AAGGTGCTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAG
ATGAAGCTGAAGCGACGGCGAGTGTCTGCTCGTCTCCCTGAGCACCACGAGGCCTTCAAC
AGGCTGCTTGCTGACCTCAGCCGGAGGCCTCTCCTGGTGGTGGCCCTGAGCAGCAACCTG
ATTTCTGTCTCAGCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAA
AACATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCCT
TGGTTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCC
TTGCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCACGAACCCGAGGGCCAGGAAGAAC
CGCTCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCATGAACTCG
AGGGCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGGTTCCACTTCTTC
TGTTCCATGAGCTGCAGGGCTTGGGTTTTCCCAGAGGAGTTGGAGGAGAACACCGGACCC
AGGGGAGATGTGGATTTTTCAGCGGGAACCTTATTCCAATGCTAATGGCAGACACCAGGCA
GGAGGAGAGGAACCATTTGTGCAGATCATCTAG

Gene 760. >OTTHUMT00007007047 cDNA sequence

ATGGGGAGTACATTTAGAGTGGGAACTGCACTCACTCAATTAGAAAATTTAAATGCCATG
GGAATAATTGGATCCCAAGGTGGCAGTGTCCAAGTAGTGGCACTCAACTGTCAAAGGCAA
ACAGTAGAGGCTTATGGAGGTGAGGTAATTAATGAAGTTTTAGCTCAGGTCCAACCTTACA
GTGGGTCCATTTGGTCCCCGGAATCATTCTGTGATGATTTCCCCAGGGCCAGAATGCATA
ATTGGCACAGGCATACTTAGCAGCTGGCAGAATCCCCACATTGGCTGCCTGACAATAAAG
TGGGTTGTACACAGCAGCATTCCATCATCTAATGGAAGTGGCACAACGTAATTGGGCTT
AAGCAGGTCCAGAAGGCACAAGTTTTTAACTTCTTTGCCATGGGTTCAAACCTTCTCTTT
AGCTCGGAGAAATTTGATCATCTGAAGCCTTCTTCTCTCAACTCGTCAAAGTCATTCTCC
ATCCAGCTTTGTTCCGTTGCTGCCTGCCTTGTGCTTGGCTGTATGATTTTTCCCTGATGGC
TGGGACTCAGATGAAGTAAAACGGATGTGTGGAGAAAAGACAGACAAGTACACTCTTGGG
GCTTGCTCAGTCCGCTGGGCATACATCCTGGCTATTATTGGAATTTTGGATGCCCTGATC
CTCTCATTTCTAGCATTTGTGCTTGGTAATCGACAAGACAGCTTGATGGCAGAGGAACTG
AAGGCAGAAAACAAATTGCCATCAGAACTTAATGGCTAA

Gene 761. >OTTHUMT00007008004 cDNA sequence

GCAGCCCTCCCACTTCACTCTCTCTGTCTCTCTGCTCCAACATGGCCAGACGTGCCTGC
TTCCCTTTCGCTTCTGCCGTGATTGTGAGTTTCTGAGGCCTCCCCAGCCACGCTTCCT
GTACAGCCTGCAGAACTGACTCCTAGAAGGACCCCAACCCCTCCCCCAACCCCTGCTCC
TAGGAGGACAACGTGATCACTGTATTGAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 762. >OTTHUMT00007006403 cDNA sequence

CTAGATTGTCCCAGCCTGCCCTGTGCTTCATTAGCCGGTCAACAGATCCATCTCAAATAC
CTCCCATGGGTACTCACTGATTGCTTTAACCACAAACCATGGCACTCTTGAAGACTTTCCC
TCAGGAAGCTCAAGGACTATGCATCCTTCTGGGTGAGAACTGGACACACAGCCACCAGTG

FIGURE 1 (CONT'D)

CTGGACAATGGCGGCGGCTCAGGGACACACTGGAGCCCTGGCCCCCTGCAGAGCTCCCAGC
ATGGTTGGGAAGAGAGATGCAAAATGACCACACGGCGGGTGAGGAGGAGCTCCCTCGGTG
CGGCTGGGATGAGCCCTAGACACTCTCAATCACCCCCACGATGACCCCTTCCAGAGGTC
CCCTCAGTCATCTGCCCTGAACCAAGCTCTTCCTGATCCTAGACCCCTCCACCCTCCCTCT
ATCTTCCAGGGCTTGGTGACATTCCAGGCAGAAATTTCTGACCCCTTTTACTTTGGTCCCT
CCCTCCCCAGCCAGTCTCTGGTCAAACCTGGATTCTCTGGCTGTTCCAGAACGAGCTGCC
TTTCCCCACCTTGCCACCTCTGCCCTTGTCTCTCTGCCTGAATGTCCTCCTTCACTAGC
CTCGCTGCCTTGACATCTCTCTGAGGGCTGTCTCCAGAATGAGCTGCATTTGTCCA
GCCTGGCCACCGTCTACCAGAACGTCCTCCTTCAGCCTGTCCCACTGCCTTGCAAACT
TTTCTGGGGGACCTGTTTACGATGCCTTCTGTAGCATACTCCAAGAATCCGGCGCCCCCT
GGAGTTGTGCCACACAGCACCCCTTTGCAGTCAAGCTCCCTCAGCACCACCACCTCCACC
CTGGAAGAGTTCCCTTTCCCTTTGAAATCTCATGGGACTTTGCACCCA

Gene 763. >OTTHUMT00007006404 cDNA sequence

GTCAGGTGGCGTTTGTCTGTGGCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCC
CCCGCGAGCCTCCTGCCCTGGCCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGG
CCCCCGGGGCGCGGGCTGGGTGGCGGGCGGGCCTGCTGCTCGGCGGGGCGCTGCTACTG
CATTTACAGGCTGACCCGGGGTTCGGCGGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTC
GAAGTCCGAGAAGACTTAACTGATGGTTTCATATGATGATGTTCTAAATGCTGAACAACT
TCAGAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTT
GATTACTTTGGGTAAACAATGCAGCCTTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGG
TGGTATTCCAATTGTTGCAAAACAAATCAACCATTCCAACCAGAGTATTAAAGAGAAAGC
TTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAATCAAGATAAAGATATA
CATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTCTCTGAACTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACCAGCACATGCTTCACAG
TTACATTACAGACCTGTTCCAGGTGTTACTTACTGGAAATGGAAACACGAAGGTGCAAGT
TTTGAACTGCTTTTGAATTTGTCTGAAAATCCAGCCATGACAGAAGGACTTCTCCGTGC
CCAAGTGGATTTCATCATTCTTTCCCTTTATGACAGCCACGTAGCAAAGGAGATTCTTCT
TCGAGTACTTACGCTATTTTCAAGATATAAAGAACTGCCTCAAAATAGAAGGCCATTTAGC
TGTGCAGCCTACTTTCACTGAAGGTTTCATTGTTTTTCTGTTACATGGAGAAGAATGTGC
CCAGAAAATAAGAGCTTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAAC
AATAATACCCAAATCTGATTGGTCATATTTTTTCAAAGAGTAATGCAGTCTGGATATAA
ACGTATTTTCTGTCTTCTTATAAGGGGATTCTCCCAGCTGCTAAATTTAAACAGTAAAT
ATCACATTTTGTCTATTAACACAG

Gene 764. >OTTHUMT00007008008 cDNA sequence

GCAGCCCTCCCACTTCACTCTCTCTGTCTCTCCTGCTCCAACATGGCCAGACGTGCCTGC
TTCCCTTTCGCTTCTGCCGTGATTGTGAGTTTCTGAGGCCTCCCCAGCCACGCTTCCT
GTACAGCCTGCAGAACTGACTCCTAGAAGGACCCCAACCCCTCCCCCAACCCCTGCTCC
TAGGAGGACAACGTGATCACTGTATTTCAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 765. >OTTHUMT00007006406 cDNA sequence

AAACGCAAGGCTTGAATTTTCTCGGGCCTTATGATGCTGGTTCTTGAGAAGTTAGCCAC
TGATATTCTTGTCTGCTATATGATGACAATCTCTTCTGTCAATTTGGTGGATGAAGTACT
CTTGTTTGAAGGGAGCTACACAGTGTTTCATGGCTATCCTGGCACTTTTGCTAGTTGTAT
GCATATTCTATCAGAGGAAACCTGTTTTTCAGAGATGGTTGACGGTGGAGAGAAAATTTGC
TCTTCAAAAATGGACTCAATGCTTTCTCAGAACTGCCTGGGTATCGCAATATAAGGA
TATCACTGACGTGGATGAAATGAAAGTTCCAGATTGTGCAGAACTTTTATGACTCTACT
CTTGTTTATACTGACAGGTATAAAAATCTTCCACAGCTTCCCGAAAGCTTCAGTTCTT
GGAGTTACAGAAGGACTTAGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAGA
AGAGACTAGAGCTTCCCTTGGCTTTCGATACTGTGCAATTCTTAATGCTGTGAACTACAT
CTCAACAGTACTAGCAGATTGGGCTGACAATGTTTTCTTCTACAACCTTCAACAGGCTGC
ACTGGAGGTGTTTGCAGAGAATAATACTCTGAGTAAATTGCAGCTAGGACAGCTAGCCTC
TATGGAGAGCTCTGTCTTTGATGACATGATTAACCTCTTAGAACGTTTAAAGCATGATAT
GTTGACCCGTCAAGTAGACCACGTTTTTATGAGAAGTTAAAGATGCTGCAAAATTTGTATAA
AAAAGAAAGATGGTTGTCTTGGCATCTCAGTCAGAGCAGGCAGTGATGTCCCTGTCCAG
TTCGGCTTGCCCGTTGCTGCTGACGTTACGAGACCATTTACTTCAGTTGGAGCAGCAGCT

FIGURE 1 (CONT'D)

TTGTTTCTCCTTATTTTAAAATTTTCTGGCAAATGCTTGTAGAGAAGCTGGATGTATACAT
CTACCAAGAAATAATTCTTGCTAATCACTTCAATGAAGGAGGAGCAGCCAGCTGCAGTT
TGATATGACTCGGAATCTTTTCCCTTTGTTTTCTCACTATTGCAAGAGACCAGAAAATTA
TTTTAAACATATAAAAGAAGCCTGTATTGTTTTGAATTTGAACGTCGGTTCTGCACTACT
GCTGAAAGATGTACTGCAGTCAGCTTCAGGGCAGCTTCCTGCCACAGCAGCATTAAATGA
AGTTTGAATTTACAACTGGCTCAACAAGATGTTGAGATTCTACTTAATTTGAGGACAAA
TTGGCCTAATACTGGAAAATAATGTCTTTCAGAAAAAGGTTTCTTTGGTTTTTGTCTTA
AGAAAGAGGAAGCCAATTGGATTTCAAGTTATATGATGAAATTCTGAATTAATGAACTG
GAAAACTTTATAGAATTACTTATTATCTTGGATTTATGGTGTATTATAAATGCTGACCAT
ATTTCTTTTATCCTCTTGTTCCTAAGGAAACAAAAACAGAAAACGAAACAATGAAAACCTC
AATTCTATTTACAAGTATAAATGCTGAGTATGTCTGTTGAAGACGAGCAGAGATATTAAA
TTATAACCAACTTTCAATTTCTGTGCTAATTAAGGGAAATTCTGTTGTGGATAATCAAA
CATAGCCAATAAATTTTTTTTAAACTCCCTTTG

Gene 766. >OTTHUMT00007006412 cDNA sequence

GCTGGGGTGAGCAGCACTGTAAAGATGAAGCTGGCTAACTGGTACTGGCTGAGCTCAGCT
GTTCTTGCCACTTACGGTTTTTTTGGTTGTGGCAAACAATGAAACAGAGGAAATTAAAGAT
GAAAGAGCAAAGGATGTCTGCCAGTGAGACTAGAAAGCAGAGGGAAATGCGAAGAGGCA
GGGGAGTGCCCTACCAGGTAAGCCTGCCCCCTTGACTATTGAGCTCCCGAAGCAATTC
AGCAGGATCGAGGAGGTGTTCAAAGAAGTCCAAAACCTCAAGGAAATCGTAAATAGTCTA
AAGAAATCTTGCCAAGACTGCAAGCTGCAGGCTGATGACAACGGAGACCCAGGCAGAAAC
GGACTGTTGTTACCCAGTACAGGAGCCCCGGGAGAGGTTGGTGATAACAGAGTTAGAGAA
TTAGAGAGTGAGGTTAACAAGCTGTCTCTGAGCTAAAATTCATCTTCTGACCAAGAGTA
AGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGGAATATATGCCTTGT
ATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATA
ATGGCACAGCTGGAGATGCATTACGTTTCAACAAACATTACAACCACGATCTGAAGTTTT
TCACCACTCCAGATAAAGACAATGATCGATATCCTTCTGGGAACTGTGGGCTGTACTACA
GTTTCAAGCTGGTGGTTTTGATGCATGTCTTCTGCAAACTTAAATGGCAAATATTATCACC
AAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTGTAAAGTGAGG
CACACCCTGGTGGCTACAAGTCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGC
ACTTTAAGCCATAAATCACTCTGTTTCAATTCCTCCAGGTATTCTGTTATCTAATAGGGCAAT
TAATTCCTTCACTCTTTAGAATATGCCTTGTCTTCAATTTTTTATAGCTAAAAAATGAT
GTCTGACGGCTAGGTTCTTATGCTACACAGCATTTGAAATAAAGCTGAAAAACAATGCAT
TTTAAAGGA

Gene 767. >OTTHUMT00007007070 cDNA sequence

ATGGCTTATACCAGCAAAGAGCTCGGTTTTTCAAGAGCAGGCAGAACCCAGCAAGTCCCAAG
GTTTGAAGCACTCCAAAGACCTCCGCCAGCTGCAGCCCTGCCCCCTGAGTCCCCGATGAGT
TCCAGTGAGTCGGTGAAGAGCCTGACCGAGCTGGTCCAGCAGCCCTGTCCCCCATCGAG
GCGAGCAAGGACAGCAAGCCACAGAGCCCAAGTACCCGCCAGCATCCGACTCCAGCCC
ACAACCCCGCTGCCTCTCTCCGGACACTCGGCCCTCAGCATCCAAGAATTAGTAGCCATG
TCCCCGGAGCTGGACACCTACGGCATAACCAAGCGGGTGAAGGAGGTGCTGACGGACAAC
AACCTCCAGCGCTTATTTGGGGAGACCATCTTAGGGCTCACCCAAGGCTCTGTCTCTGAC
CTCCTTGCCCCGCCCAACCCCTGGCATAAGCTCAGTCTGAAAGGACGAGAGCCCTTCGTC
CGGATGCAGCTGTGGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGACATGAAACGG
ATGGAGAAGAAAGTAGGGACAGCCCCACAGGGTCTGTGGGTCTCTCCCCGTGTGTGGAG
ACGAGAGAGTATAGAAATAAAGACACAAGACAAAGAGATAAAAGGCAGCTGGGCCCGGGG
AACCCTACCACTAAGTTGTGGAGACTGGTAGTGGCCCCCAATGCCAGGCTGCACTGATA
TTTATTGGATACAAGACAAAGGGGCAGGATAAGGAGAGTGAACCATCTCCAATCATATAC
ATGAAGCGGCGGCACAGCTCAGTCACTGACAGCCAGCCCTGCGAACCAGCCCTCTGTCTGGC
ACCGAGTACAGCCAGGGCGCCAGCCCCAGCCCCAGCACCAGCTGAAGAAACCCCGGGTG
GTGCTGGCTCCGGAGGAGAAGGAGGCGCTGAAACGAGCGTATCAGCAAAAGCCATACCCG
TCACCAAAAACCATCGAAGACCTCGCCACCCAGCTCAACCTGAAAACAGCACCGTCATC
AACTGGTTCCAACTACTCTCGGATCCGCAGAGAACTGTTTCAATGAGGAAATTCAGGCC
GGGAGTCAGGGCCAGGCGGGCGCCAGCGACTCACCTCGGCCCGCAGCGGCGGGCGGGCG
CCCAGCTCGGAGGGCGACAGCTGCGACGGCGTGGAGGCCACTGAGGGCCAGGCAGCGCC

FIGURE 1 (CONT'D)

GACACCGAGGAGCCCAAGTCTCAGGGAGAGGCCGAGCGGGAGGAGGTGCCGCGGCCGGCG
GAGCAGACGGAGCCGCCGCCCTCGGGGACCCCGGGCCCGGACGACGCCCGCGACGACGAC
CACGAGGGAGGCCCCGTGGAAGGCCCGGGGCCCTGCCAGCCCCGCTCCGCGACCGCC
ACCGCCGCGCCCGCGGCCCGGAGGACGCCGCTACCTCAGCCGCCCGCGCGCCGGGGGAG
GGCCCCGCGGCCCGGAGCTCCGCGCCGCCCGCCAGCAACAGCAGCAGCAGCAGCGCCCCC
CGCAGGCCCAGCTCGCTGCAGAGCCTTTTCGGCCTCCCCGAGGCCGCGGGCGCCGGGAC
TCGCGCGACAACCCCTGCGCAAGAAGAAGGCCGCGAACTTGAACAGCATCATCCACCGC
CTGGAGAAGGCCGCCAGCCGGGAGGAACCTATCGAATGGGAGTTCTGA

Gene 768. >OTTHUMT00007006419 cDNA sequence

AGTAGGAATAGAATAGGAGTGAAGAGGGCCTAGGACAGAGTCTTAAATAATACTGGCCT
TTAGGGTTGGGGAGGTATCAGCCAATAAAGACAAGAAGGAATTTCCAGTTATGCAGGAA
AAAAAAATGAGGATGAGGCTCATAAAGCTAAGGGAAGAGAGTAGACCGGGACAGAGGA
GTCAAGTAAGATGAGAACTAAAATGCCGTTGAATTTAGCACCATGAAGGTCATTAGTGAC
GTTAGTGAGAGCTGTTCTAGTGAGCATTGTGAGATGGAAGCTTACTTTGGAATTGACTGA
AAAGTAAATGGGGATTGAGGGAAGAAATGCAGCAGTATGGAGGCAAAAGATATGCACATT
TGATCACTTACAAAATATGATTACAGACCAACTAAAAACCTAGGAGATTCCAGAACTGG
AATGTACTTCAACACAAATTTCTTGGGATACAGATAAATGTCATTCACTTATTCACCAAAC
ATTTATGAAGCACTCGGTTCCAGGTCTTGTGCTAAAGAAACATGTCAGTCTGATGGCTTT
TCTTGTGTAGCCACAGTGATTGGAGATGTCTTTGGCTTTGCACTTTAGCTGCTAGTTGTT
CTATTTAAACGTCTAGGTAAGTAAATAGGTTAAAGTGCTCTCCTGTGTAGGACCTTCCT
AGTGTGGTTCTGTCTTCAAAGACTATGATTCTCACCTAGAGCAGATGAGGTGAACATTCT
TCTTATTTCCATTCCATTCTGGAATCCTTTTTGCCTCTAGATTAATGGGAATCCAACAT
CAGTGAAGTGCCCTTTGCTGCTGCTGCCAGCCATTCTGACTCCAGAGCCGGTGAATAGGT
GCTGCTTCCATCACTAGGTGGAATAACAGGAGCATGTGCTGCCAATCAGCATGGTTGCCT
AGCAACAGGAGGAGATGCTATTCTATTGTCTATCAGTGTGGGGGCACAATATATTTTAGTT
TAAGGTGCTTGATGAACACAATGATTACATGGACCCTCCATGTGAGCCTTGGAAGTTGTG
ATTCTGAGGCTGGGAAGCTGGACTATCTTTGGAAGCTAAATTTGGAAGTGAAAGGGGGAT
GTAGGATATGATCATCTGGCTACATAGATAAGTATTGAAAAATAGGATTTGGGTTTCTGG
CTATGGCTTAAGCTGTAAGAATAATGGGCTCCTGGCAAAGGATAAAGTGTATCATGAAAC
AAGAAATAATGTGTCTGGCAGGCATGCAATTCTCATTGAATATGAGGAAGTGGGAGACAA
ATGCCTAGATAATCTGAAAAACAAAAAGAGATTTTACAGAGGACACCAGGTATAAAGTA
GAAACAACCACAGTGGGAAAGATACACAGAGTGAATATCAAATTTTAATACAAGACAGTA
CTCTGTCTCCTAGATCTTATTGAGATTTGGAAGTGTGATGCAACATGGGTCACTTTGTGG
TCACCAACTGTCTTAAAAAGATTTGGGACAAATTCACAGTGTGATGGTATGGATGAAAA
AATAGGCACTATTGAGAACACTTAAAGAACAGAACCGAAGATTTTGGCTGTTTCTCAT
CATCTCATGGAAGGTGGGCAGGGATCAGGGTGCCACAGAACCTTCGTGTGTATCTGTG
TTTTAGCGAAGGAACCTCTGCTCCCCTGTGGTTCTCTCTATTTATTGAGAAAGTGGAAA
ACAACAACAACAAAAACAAAAACA

Gene 769. >OTTHUMT00007007077 cDNA sequence

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCCTCCACTACTGGCTACTGGCGCTG
CAGCCATGCAGCCCCCGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATC
TACAGCAGGACTTCCAGAACATCCAGGAGACCCATCGGCTCTACCGCTGAAGCTGGAGG
AGCTGACCAAACCTTTAGAACAAATTGCACCAGCTCCATCACGCGGCAGAAGAAGCGGCTCC
AGGAGCTGGCCCTCGCCCTGAAGAAATGCAAAACCTCCCTCCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACAGATGAAAGAGCGCAAGGCCTCTTCTTTGACATGGAGG
CCTATTTGCCTAAGAAGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTCA
CGCTCCTGAGCAAGCAGGCTAAGTTTGCCTACAAGGACGAGTATGAGAAGTTCAAGCTCT
ACCTCACCATCATCCTCATCCTCATCTCCTTCACTTGCCGCTTCTGCTCAACTCCAGGG
TGACAGATGCTGCCTTCAACTTCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACG
TGTCCACCTTCTGTGCGGAGTCATGCTGACGTGGCCCGACGGTCTCATGTACCAGAAAT
TCCGGAACCAATTCTCTCTTTTCCATGTACCAGAGCTTCGTGCAGTTTCTCCAGTACT
ACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGCGGCACACCATGGACC
TCACTGTGGAGGGCTTCCAGTCTGGATGTGGCGGGCCTCACCTTCTGCTGCCTTTTC

FIGURE 1 (CONT'D)

TTTTCTTTGGACACTTCTGGCAGCTTTTAAACGCGCTGACGTTGTTCAACCTGGCCCAGG
ACCCTCAGTGCAAGGAGTGGCAGGTGCTTATGTGCGGCTTCCCTTCCTCCTCTTTTCC
TCGGCAATTTCTTCAACACCCTGAGGGTTGTGCACCACAAGTTTCAAGTCAGCGGCACG
GGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAGGGGCTTCTGTCCTGT
GTGTTGTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGGTCTCTTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCAGTGCCC
TCAATAAAGAGAGGCCCA

Gene 770. >OTTHUMT00007006426 cDNA sequence

ATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTGTGCTCGTCTCCCTGAG
CACCACGAGGCCTTCAACAGGCTGCTTGATCCTGTCAATTAAGATTCTTGGCCTGGGAC
AAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTCATAGCGTATTTAGCCGG
GCCGGCTTCCCCTCCTGGCAATACCAACGCATTCAATTTCTTCTGGCTTACCTGGCCAAT
GACATGGAGGAGGACGACGAGGACTCCAAACAAAACATCTTCCACTTCTGTATAGGAAG
AACCGCTCTCGCATACCTTGTCTCCGTAAGCGTTGGTTCCAGTTAGGCCATTCCATGAAC
CCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGTCTCCGTAAGCGTCCGTTCCAGTTA
TACCGTTCCACGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGTCTCCGTAAG
CGTCCGTTCCAGTTATACCGTTCCATGAAGTCTGAGGGCCAGGAAGAACCGCTCTCAGATA
GTCCTGTTCCAGAAACGACGGTTCCACTTCTTCTGTTCCATGAGCTGCAGGGCTTGGGTT
TCCCCAGAGGAGTTGGAGGAGAACACCGGACCCAGGGGAGATGTGGATTTTCAAGCAGGAA
CTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGAGGAACCATTTGTGCAGATC
ATCTAG

Gene 771. >OTTHUMT00007007089 cDNA sequence

ATGGCACTTGTGTATGTGCTAATGGGAAGTGGCATTTCAGCTGGGTTTAACTTGAAAGAA
TCATACAATGTGGATGTGCTTGGAACTTCTCTACTGCTACCTCCAGCCAATCCGGAC
ACCAGCCTCTTCCACCTTGTGTACGTAGATGCCATTGCCATAGCCATCGTTGGATTTTCA
GTGACCATCTCCATGGCCAAGACCTTAGCAAATAAATATGGCTACCAGGTTGACGGCAAT
CAGACCTTTTCAATTTATGCTCCTTGTCTCGAAGCCTTGTTCAGGAGGGAACCGGTGGG
AAGACACAGCTTGCAGGTTGTTTGGCCTCATTAATGATTCTGCTGGTCAATATTAGCAACT
GGATTCTCTTTGAATCATTTGCCCCAGGCTGTGCTGTGCGGCCATTGTGATTGTCAACCTG
AAGGGAATGTTTATGCAGTTCTCAGATCTCCCCTTTTTCTGGAGAACCAGCAAAATAGAG
CTGACCATCTGGCTTACCACTTTTGTGTCTCCTTGTTCCTGGGATTGGACTATGGTTTG
ATCACTGCTGTGATCATTTGCTCTGCTGACTGTGATTTACAGAACACAGCCAAGCTACAAA
GTCCTTGGAAAGCTTCTGAAACTGATGTGTATATTGATATAGACGCATATGAGGAGGTG
AAAGAAATTCCTGGAATAAAATATTTCAAATAAATGCACCAATTTACTATGCAATAGC
GACTTGTATAGCAATGCATTAATAACGAAAGACTGGAGTGAACCCAGCAGTCATCATGGGA
GCAAGGAGAAAGGCCATGCGGAAGTACGCTAAGGAAGTCCGAAATGCAATATGGCCAAC
GCAACTGTTGTCAAAGCAGATGCAGAAAGTAGATGGAGAGGATGCTACCAAGCCTGAAGAA
GAGGATGGTGAAGTAAATATCCCCAATAGTGATCAAAAGCACATTTCTGAGGAAATG
CAAAGATTTATGCCCCAGGGGATAACGTCCACACTGTCAATTTTGGATTTCACTCAAGTC
AATTTTATTGATTCTGTTGGAGTGAAACTCTGGCAGGGATTGTAAAGAATATGGAGAC
GTCGGTATATATGTATACTTAGCAGGATGCAGTCAAGTTGTGAATGACCTCACTCGGAAT
AGATTTTTTGAATCCTGCCCTATGGGAGCTGCTGTTCCACAGCATTATGATGCAGTT
TTAGGCAGCCAATTAGAGAGGCACTTGCTGAACAGGAAGCCTCGGCTCCCCCTTCCAG
GAGGACTTGGAGCCCAATGCCACTCCTGCCACTCCTGAGGCATAG

Gene 772. >OTTHUMT00007008045 cDNA sequence

CTTGACTCACTGAGGCAGTAAAGAACCATATCCTGTGTTTGAATCAAATCCCAAGTTC
CTGTACGTAGAAGGTTTGCCAGACAGGATTCCCTTTCGAAGCCCTCCTGGTTTGGAATTC
CATGACTTGAAAGGATCGTCCATGGGAGTAATAAAATCAAATTTGTTGGTAAAAACCTG
AACTGGTTATTTCTACTTGCCTCCTGGAGTTGCTAATAAAATAAACTAAAGCTTCGC
AGTTTCTAAAAAGACCATGAAGCCCTGAGAGTAATGAAAAGGTTCTGAAATTGAGGTCA
CTGTGGAAGGT

Gene 773. >OTTHUMT00007006445 cDNA sequence

GGGACGTGAGCCGCTGCGCCACCGGGCTAGACCCGGCGCCATCATGCTGCTTCTGCCAA
GCGCCGCGGACGGCCGGGGCACCGCCATCACCCACGCTCTGACCTCTGCCTCTACACTCT

FIGURE 1 (CONT'D)

GTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTTAAGAGGAGAAACAGAAATG
 CTTCTGCCTCTTTTCAGGAACTGGAGGATAAGAAAGAGTTATCCGAGGAATCAGAAGATG
 AAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGA
 ACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATACAAGGCTACACAGAGAC
 AGATCAAAGCAGCTCATAAAGCAATGGTTTTAAACATCACCCAGACAAACGGAAGCAG
 CTGGTGAACCAATAAAAGAAGGAGATAATGACTACTTCACTTGACATAACTAAAGCTTATG
 AAATGTTATCTGATCCAGTGAAAAGACGAGCATTTAACAGTGTAGATCCTACTTTTGATA
 ACTCAGTTCCTTCTAAAGTGAAGCAAAGGATAATTTCTTGAAGTGTTTACCCAGTGT
 TTGAAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCTTAACTTGGTGATATGAATT
 CATCATTTGAAGATGTAGATATATTTTATTCTTTCTGGTATAATTTTGATTCTTGGAGAG
 AATTTTCTTATTTAGATGAAGAAGAAAAAGAAAAAGCAGAATGTCGTGATGAGAGGAGAT
 GGATTGAAAAGCAGAACAGAGCAACAAGAGCACAAAGAAAAAAGAAAGAAATGAACAGAA
 TAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATAAAAAAGTTCAAGGAAG
 AAGAAAAAGCCAAGAAAGAAGCAGAAAAAGAAAGCAAAAGCAGAAGCTAAACGGAAGGAGC
 AAGAAGCTAAAGAAAAACAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGA
 AAGAAGAGGAGGAAGTCAGACAGCAAGCATTGCTGGCAAAGAAGGAAAAAGATATCCAGA
 AAAAAGCCATTAAGAAGGAAAGGCCAAAACTTCGAAACTCATGCAAGATAGAAGAAATAA
 ATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGA
 ACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAATTGGTCAGAAGATGATC
 TACAATTACTAATTAAAGCTGTGAATCTGTTCCCTGCTGGAACAAATTCAAGATGGGAAG
 TTATTGCTAATTACATGAACATACATTCTTCTCTGGAGTCAAAAGAACTGCCAAAGATG
 TTATTGGCAAAGCAAAGAGTCTCCAAAACTTGACCCCTCATCAAAAAGATGACATAAATA
 AAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCTCAAGCAGACAACGCAA
 CGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAGAAC
 AGAAGCTTTTGAACAAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAA
 AAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAAGGACTGCATGAAACGATACAAGGAAC
 TTGTCGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTGTGAATGCAAGTAGAG
 CCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTTATAATAAACTGAAAATACTGTAA
 ACATTTTCATTCTTAAATTATACTCATGGTAATAATTTGAAAGTA

Gene 774. >OTTHUMT00007006446 cDNA sequence

ATGGCCAGGTAGCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCCTCCTCAGAGACCAGG
 ATGGTGGTGACATTCTCTGTGTCTGCCCTCGAATCCATGTGTAAAGAACTGGCCAAGTCC
 AAGGCAGAAGTGGCCTGCATCGCAGTGTACGAAACAGACGTGTTTGTCTGCGAACCAGAG
 AGAGGATGCGCTTTTGTTAATGCCAGGACGGATTTTCAGAAAGATTTTGCAAAATACGTT
 GCAGAGGGACTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCG
 GGCAGAACGGAAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTATAAAGCC
 TTAGGGACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTCCGCT
 GTGGTAGTGCAGGGGCTTCCGGAAGGCGTTGCCTTTCAACACCCTGAGAATTACGACCTT
 GCAACCCTGAAATGGATTTTGGAGAACAAAGCAGGGATTTCAATCATATAAATCCCTTC
 CTAGGACCAGAGAGTCAGCTGGGCCCTGGGATGGTAACAGATGCGGAGAGATCCATAGTA
 TCACCAAGTGAATGCGGCCCATCAATGTGAAAACCTGAACCCATGGAAGATTCTAGCCAC
 CCTTCTTCCACAAGCAATGAAGTAATAGAAATGGAATTACCAATGGAATCCACTCCGCTG
 GTCCTTTCAGAAGAACCAATGAGGACCTGAAGCCGAGGTGAAAATCGAAAACACAAAT
 TCATCCAGTGTACAAATTCTGCAGCAGGTGTTGAAGATCTTAACATCGTTCAAGTGACT
 GTTCCAAATGAGAAGGAAAGATTATCAAGCATTGAAAAGATTAAACAGCTAAGAGAACAA
 GTTAATGACCTCTTTAGCCGAAAATTTGAAGCAATTGGCGTGGATTTCCCTGTGAAAGTT
 CCCTACAGGAAGATCACATTCAACCCTGGCTGTGTGGTGATTGATGGCATGCCCCGGGG
 GTGGTATTCAAGGCCCCGGCTATCTGGAATCAGTTCATGAGGAGGATCTTGGAGGCA
 GCTGAGTTTATCAAATTCACAGTCATCGTCCATGTGCAGGATGTGCAGGTTTGTACACA
 GGAACCGCAAGATAGACCAGGAGGGCCGTGTGTTTCAAGAAAAGTGGGAGAGAGCGTAT
 TTCTTCTGTGGAAGTACAGAATATTCCAACATGTCTCATATGCAACAAAGCATGTCTGTG
 TCCAAAGAATATAACCTAAGACGCCACTATCAAACCAATCACAGCAAGCATTATGACCAG
 TATATGGAAGAATGCGTGACGAGAAGCTTCACGAGCTGAAAAAAGGGCTCAGGAAGTAT
 CTCTTAGGCTTGTGAGACACCGAGTGTCCCAGCAAAAACAAGTGTTCACACCCCAAGT

FIGURE 1 (CONT'D)

CCAACCCAGAAATCCCCCGTGCAGCCTGTAGAGGACCTAGCTGGGAACCTTATGGGAGAAG
TTACGTGAAAAAATCAGGTCTTTTGTGGCATATTCTATCGCAATCGATGAGATCACGGAT
ATAAATAATACCAACCCAGTTGGCCATATTCTATCCGTGGTGTGATGAGAATTTGATGTG
TCCGAAGAACTTCTGGACACGGTGCCCATGACGGGTACAAAATCTGGCAACGAGATCTTT
TCGCGTGTGAGAAGAGCCTGAAAAAGTTCTGTATCGACTGGTCGAAATTAGTAAGCGTG
GCCTCCACTGGCACCCAGCGATGGTGGATGCCAATAACGGGCTTGTACAAAACCTGAAG
TCCAGGGTGGCGACGTTCTGCAAGGGTGCAGAACTGAAGTCCATCTGTTGTATAATTCTAT
CCGGAATCACTCTGTGCTCAGAAGTTGAAGATGGACCACGTCATGGACGTGGTAGTGAAG
TCCGTGAACTGGATATGCTCCCGGGGACTGAACCACAGTGAGTTCACAACCTTGCTCTAT
GAGCTGGACAGCCAGTATGGTAGCCTCCTGTACTACACGGAGATTAAGTGGCTCAGTCGC
GGGCTCGTGCTAAAGAGATTTTTTGAATCCTTGGAAGAAATCGACTCCTTCATGTCATCC
AGAGGGAAACCCCTGCCTCAACTGAGCTCCATAGATTGGATCCGAGACCTGGCCTTCTTG
GTTGACATGACGATGCATCTGAACGCTTTGAACATCTCTCTCAAGGACACTCCCAAATC
GTCACGCAGATGTATGACCTGATCCGGGCGTTCTAGCAAAACTGTGCCTCTGGGAGACT
CATTTGACGAGGAATAATCTGGCCCACTTTCCACCCCTGAAATTGGCTTCAGAAATGAA
AGCGATGGCCTGAACTACATTCCCAAATCGCGGAACTCAAGACCGAATTCAGAAAAGG
CTGTCTGATTTCAAACCTCTACGAAAGCGAACTGACTCTGTTTCACTCCCCGTTCTCCAG
AAGATCGACAGTGTGCACGAGGAGCTCCAGATGGAGGTTATCGACCTGCAATGCAACAG
GTCCTGAAGACGAAATACGACAAGGTGGGAATACCAGAATTCTACAAGTACCTCTGGGGT
AGCTACCCGAAATACAAGCACCATTTGCGCAAAGATTCTTTCCATGTTTGGGAGCACCTAC
ATCTGCGAACAGCTGTTTCTCATTATGAAACTGAGCAAAACAAAATACTGCTCCAGTTA
AAGGATTCCAGTGGGATTCTGTACTCCACATCGCAACGTGA

Gene 775. >OTTHUMT00007006447 cDNA sequence

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACAGCCAGAAC
GTGCATACTGGGCACCCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCG
CCTGCCTCTGTCTAGCAACGCAGTGCTCTGCTGGAAGTTCTGCCATGTGTTCCACAACT
CCTCCGAGATGGACACCCGAACGTCCTGAAGGACTCTCTGAGATACAGAAATGAATTGAG
TGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAATCCCAGGTTCACAGGCAA
CCTGCAGATGAGTGACCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTT
CCAGTTAACAGTGGAGATGTTTGACTACCTGGAGTGTGAACTCAACCTCTTCCAAACAGT
ATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGCAGGGCAGTGCCGCCT
CGCCCCGCTGATCCAGGTCTCTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCACTCCTGCCTCCCAGCTGACACCCTGCAAGGCCACCGGGACCGCTT
CATGGAGCAGTTTACAAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTT
CAAGCGGCTCATTAGATCCCCAGCTGCCTGAGAACCCACCCAACTTCCTGCGAGCCTC
AGCCCTGTGAGAACATATCAGCCCTGTGGTGGTGTATCCCTGCAGAGGCCTCATCCCCGA
CAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAATTT
ATTTGACAACAAGTTTGTATGACATCTTTGGCAGTTCATTAGCAGTGATCCCTTCAATTT
CAACAGTCAAAATGGTGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAG
AGAGATCAGTGGATTGAAGGCACAGCTAGAAAAATGAAGACTGAGAGCCAGCGGGTGT
GCTGCAGCTGAAGGGCCACGTGACGAGCTGGAAGCAGATCTGGCCGAGCAGCAGCACCT
GCGGCAGCAGGCGGCCGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCA
AGCCAATGAACAGCGATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTCAGAACCA
CGCTGACCTGCTGCGGAAGAATGCAGAGGTGACCAAACAGGTGTCCATGGCCAGACAAGC
CCAGGTAGATTTGGAACGAGAGAAAAAGAGCTGGAGGATTCTGTTGGAGCGCATCAGTGA
CCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAACT
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAAACTTCTGCCAGTC
AGAAGCAAACCTGGGCAGCCGAGTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAG
TGGCGCAGCTCATAGGGAGGAGGAATTATCTGCTCTTTCGGAAGAAGCTGCAGGACACTCA
GCTCAAACCTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAAAGACCAACGAAAAAT
GCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCAC

FIGURE 1 (CONT'D)

ATCCATTTCCAGCTGCATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCC
AGAAGACATCAGTGGACTTCTCCATTCCATAACCCTGCTGGCCCACTTGACCAGCGACGC
CATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCCTGCCGACTCACTGAC
CGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA
GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAACTGCCTGAGCAAGATCAAGGC
CATCGGCGAGGAGCTCCTGCCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCT
GGTGGACAAGGAGATGGCGGCCACTTCAGCTGCTATTGAAACTGCCACGGCCAGAATAGA
GGAGATGCTCAGCAAATCCCAGCAGGAGACACAGGAGTCAAATTGGAGGTGAATGAAAG
GATCCTTGGTTGCTGTACCAGCCTCATGCAAGCTATTAGGTGCTCATCGTGGCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTTTA
TGCCAAGAACTCTCGATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGG
AGCCACTGTATGGTGGATGCAGCTGATCTGGTGGTACAAGGCAGAGGGAAATTTGAGGA
GCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCAGCTTGTGGCTGCATCCAA
GGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCCGGCAAATCACAGATCGAAGA
GACAGACAACATGGACTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGA
TTCTCAGGTTAGGGTGCTAGAGCTAGAAAATGAATTGCAGAAGGAGCGTCAAAAAGTGGG
AGAGCTTCCGAAAAAGCACTACGAGCTTGTGGTGTGCTGAGGGCTGGGAAGAAGGAAC
AGAGGCATCTCCACCTACACTGCAAGAAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
CACCCCATATGTAGTGTAAATCCTTGTTACCTATCTCGTGTGTGTTATTTCCCGAGCCA
CAGGCCAAATCCTTGGAGTCCCAGGGGCAGCCACACCACTGCCATTACCCAGTGCCGAGG
ACATGCATGACACTTCCAAAGACTCCCTCCATAGCGACACCCTTTCTGTTTGGACCCATG
GTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTGGCCAGTGCTGCCCAT
GAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
ACATCCAGTCCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCT
GCTTGTGTTGTTTGTGACAGCTTGGAAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTTT
TTCTCAGTCTTTTCTAGTTTCATCATTTGCACAAACTTGTGAGCATCAGAGGGCTGATGGA
TTCCAAACCAGGACACTACCCCTGAGATCTGCACAGTCAGAAGGACGGCAGGAGTGTCTTG
GCTGTGAATGCCAAAGCCATTCTCCCCCTCTTTGGGCAGTGCCATGGATTTCCACTGCTT
CTTATGGTGGTTGGTTGGGTTTTTTTGGTTTTTGGTTTTTTTTTAAAGTTTCACTCACATAG
CCAATCTCCCAAAGGGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTA
GCTCCAGCGATGGTGTGCCCAGGCCTCTCGGTGCTCCATCTCCGCCTCCACACTGACCA
AGTGCTGGCCCAACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGCTGAGTGACAGCTTTC
CTCAAAAAGCAGAAGGAGAGTGAGTGCTTTCCCTCCTAAAGCTGAATCCCGGCGGAAAG
CCTCTGTCCGCCTTTTACAAGGGAGAAGACAACAGAAAGAGGGACAAGAGGGTTTCAACAG
CCCAGTTCCCGTGACGAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGAT
CAACAACACTACTTCCCTGCCGGAATGAACTGTCCGTGAATGGTCTCTGTCAAGCGGGCC
GTCTCCCTTGGCCCAGAGACGGAGTGTGGGAGTGATTCCCAAACCTCTTTCTGCAGACGTC
TGCCTTGGCATCCTCTTGAATAGGAAGATCGTTCCACCTTCTACGCAATTGACAAACCCG
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCCTTA
GTATTTATTACTAACCTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATC
AGAACTTCAGGTGTGACTCTAGCAAGGCTCATCTTTCTGCCCGGCTACATCAGCCTTCAA
GAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGATCCCAAAGCAAGGAGA
TCATTTGGAGCTCTTGGGTGAGAGAAAATGAGAAAGGACAGAGCCAGCGGCTCCAACTCC
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACA
TGAACAGCTTGCCAGGGATGGGCAGCCCAACAGCACTTTTCTCTTCTAGATGGACCCCA
GCATTTAAGTGACCTTCTGATCTTGGAAAAACAGCGTCTTCTTCTTTATCTATAGCAAC
TCATTGGTGGTAGCCATCAAGCACTTCCAGGATCTGCTCCAACAGAATATTGCTAGGTT
TTGCTACATGACGGGTTGTGAGACTTCTGTTTGTGATCACTGTGAACCAACCCCCATCTCCC
TAGCCCACCCCCTCCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAAA
CTCTCTCCAGGACCTCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGG
AAGTATCAGCACTAGAAATTGGGCAGTCTTAATGTTGAATGCTGCTTTCTGCTTAGTATT
TTTTTGATTCAAGGCTCAGAAGGAATGGTGCCTGGCTTCCCTGTCCAGTTGTGGCAACT
AAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGTCCTCACTT

FIGURE 1 (CONT'D)

CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGT
GGCTCACGCCTGTAATCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTCA
GGAGTTCAAGACCAGCCTGTCCAACATGGTGAAACCCCCATCTCTACTAAAAATACCAA
AATTAGCCGAGCGTAGTGACGGGTGCCCCGTAATCCCAGCTACTCAGGAGGCTGAGACAGG
AGAATCACCTGAACCCAGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAATTACAAATGGGGC
AAACAGTCTAGTGTAATGGATCAAATTAAGATTCTCTGCCAGCCGGGCACAGTGGCGCA
TGCCTGTAATCCCAGAACTTTGGGAGGCCAAGACGGGATGATTGCTTGAGCTCAGGAGTT
TGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAATTCAAAAACAAAATT
AGCCGGGCATGATGGTGATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCACTCCGGC
CTGGGTGACAGAGTGAGACCTGTCTCAAAAAAAAAAAGATTCTGTGTGAGAGCCAGCC
CAGGAGTTTGAGGCTGCAATGAGCCATGATTTCCCACTGCACTCCAGCCTGAGTGACAGA
GCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAATGATCCTGTCTCTAAAA
AGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTCAGATGT
CACATAATTACTTTTCGTAATAGCTCAGATTAGAATGGCTACCCCATTTCTCTAGACAAAAT
CAAATTGTCTATTGTGACTCTTCTAAAAATGAAGATGAAGAGCTATTTAATGACACACC
TTGGATTAAACCGGAATCACATCTTAAAGCTAAAAATGAACCTGCAAGCCTTCTAAATG
AGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTT
ACTTAAGTTTGTAAAGACAGTGCCCTGAGACCTCTAGAGAAAAGATGTTTGTTTACATAAG
AGAAAGAGGCCAGACATGGTGTCTCACACGTTTAAATCCCAGCACTTTGGGAGGCAGGGGC
GGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAACATGGTGAAACCCCGT
CTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCAGGCGCCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

Gene 776. >OTTHUMT00007007406 cDNA sequence

ATGGATCGGATGGCCAGCTCCATGAAGCAGGTGCCCAACCCACTGCCCAAGGTGCTGAGC
CGGCGCGGGGTGGCGCTGGGCTGGAGGCGGCGGAGCGGAGAGCTTCGAGCGGACTCAG

Gene 777. >OTTHUMT00007007412 cDNA sequence

GGTGCCGGCGTGAGACGGGTGGGAACTGCTGGTGTCCAATCTAGGTTTTGAAGTATCA
GACACTGATATTTGGGAACTCTGCAGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTA
CGATGGCTCTGGCCGAGCTTAGGATCAGCAGACATGCGCTTTGAGCGGAAGGCACACGC
CCTGAAGGCCATGAAGCAGTACTACGGCACCCCTCTGGCTGGCCGCCCTGTGAACATTCA
GCTTGTACATCACAGATTGATACATAACAGACACCTGCACAGAGCGTAAACAGAGGTGG
CATGACTAGAAACCGTGGCGCTGGAGGTTTTGGTGGTAACGGAGGCACCCGGGGAGGCAC
CCGGGGAGGCACCCGTGGAGGCGACCGGGGAAGAGGCAGAGGCGCCGGCAGGAATTCAAA
GCAGCAGCTTTTCGGCAGAGGAGATGGACGCCTATAATGCCAGAATGGACACCAGT

Gene 778. >OTTHUMT00007007413 cDNA sequence

CCGCAAGGAAAGAAGGCCAAAGGGAAGAAGGTGGCTCCGGCCCCCTGCTGGCGTGAAGAAG
CAGGAGGCCAAGAAAGTGGTTTATCCCGTTTGAGAAAAGGCCTAAGACTTTTGGCACTGG
ACAGGACTTCCAGGCCAAAACGGACCTCGCCCACTTTGTGCAATGGTCCTGCTCGGTGAG
GGTGCAGTGGCGGACAGCCATCCTCTATAAGTAGCAGAACTGTCTCCTGCTATTAAACCA
GTTACCCAGGCCCTGGACCGCCAAACAGCTATTGAGCTGCTTAAGCTGGCCAGAAAGTA
CAGACCAGGGGCAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCTGACTGAGAAGAAAGC
TGCCAGCAAAGGGGACGTCCCCACTAAGAGGCCACCTGTCTTGGAGCAGGAATTAACAC
CGTCACCACCTTGATGGAGAAACAAGAAGCTCAGCTGGGCCAGGCACAGAAGGCTCAGCT
GGTGGTGACTCCACGCAACATGGGTCCCATCAAGCTGGCTGTCTTCTGCTGTGCCTGT
GTGTAAAGTGGGGTCCCTGACTGCATCATCAAGGGGAAGGCAAGACTGGGATGTCTAGTC
CCCAGGAAGACCTGCACCACTGTGCGCTTCACACAGGTTAACTTGGAAGACAAAGGAGCT
TGGGCTAAGCTGGTGAAGCTACCAGGACCAATTACAACAACAAATGTGATGAGATCCGC
CATCACTGGGGAGGCAGTGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCAAA
AAGGCAAAGACTAAAGAACTACCACTAACTGGGT

Gene 779. >OTTHUMT00007007414 cDNA sequence

FIGURE 1 (CONT'D)

CCTTATGTGACCTGGGGATTTCCAAATCTGAAGTCTGTCCAGAACTCATTTTGAAACGT
AGACAAGCCAAGGTCAAGAATAAGACCATCCCTCTGACAACACAGTGATTGAGGAGCACC
TGGGAAAGCTTGGTGTCTTTTGCTTGGAAGACCTCATTATGAAATTGCCTTCCCAAGGA
AGCATTTCCAGGAGATCTCATGGTTCTTGTCCCCTTTCCACCTCTCA

Gene 780. >OTTHUMT00007006487 cDNA sequence

ATGCCCTTCATGATCAACATGGGAGACTCCACGTGGACACCAGCTCCACCGTGTCCGAG
GCGGTGGCCGAAGAAGTATCTCTTTTCAGCATGACGGACATGATTCTGTTTTCGCTCATC
GTGGGTCTCCTAACCTACTGGTTCTCTTCAGAAAGAAAAAGAAGAAGTCCCCGAGTTC
ACCAAATTTCAGACAACCTCCTCTGTGAGAGAGAGCAGCTTTGTGGAAGATGAAGAAA
ACGATCTTGCAAAGCACGTTCAATTGGCTGAACCGAATTGGCTGCAACTCCAGCCCCAAC
GGGCTCTGGGGAATAGGATTTTCAGGCTTTTCAACAGCTGCTGGAGGAGGAGGGTGGACTG
ACGGCTGTGACAGTGAGAAGCAAGTCCCAGAGGAACCTAGAAGGGACTCAAAGCCAGGAA
GGAAAGGGGGCGGCCTGGAGGGCCCCCGCTGCCAGGCCTGCCAGGGAGGAACATCATC
GTGTTCTACGGCTCCCAGACGGGGACTGCAGAGGAGTTTGCCAACCGCCTGTCCAAGGAC
GCCCCACCGCTACGGGATGCGAGGCATGTGACGGACCCCTGAGGAGTATGACCTGGCCGAC
CTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGT
GAGGGAGACCCCCACCGACAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTG
GATCTCTCTGGGGTCAAGTTCGCGGTGTTTGGTCTTGGAACAAGACCTACGAGCACTTC
AATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCGGCGCCAGCGCATCTTT
GAGCTGGGGTTGGGCGACGACGATGGGTTGGAGGAGGACTTCATCACCTGGCGAGAGCAG
TTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGAAGCCACTGGCGAGGAGTCCATTTCGC
CAGTACGAGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATG
GGCCGGCTGAAGAGCTACGAGAACCAGAAGCCCTTTGATGCCAAGAATCCGTTCTGGCT
GCAGTACCCACCAACCGGAAGCTGAACCAGGGAACCGAGCGCCACCTCATGCACCTGGAA
TTGGACATCTCGGACTCCAAAATCTATGAATCTGGGGACCACGTGGCTGTGTACCCAGCC
AACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCTGC
ATGTCCCTGAACAACCTGGATGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCC
TACCGCACGGCCCTCACCTACTACCTGGACATCACCAACCCGCGCGTACCAACGTGCTG
TACGAGCTGGCGCAGTACGCCTCGGAGCCCTCGGAGCAGGAGCTGCTGCGCAAGATGGCC
TCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGGTGGAGGCCCGGAGGCAC
ATCCTGGCCATCCTGCAGGACTGCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTGAG
CTGCTGCCGCGCCTGCAGGCCCGCTACTACTCCATCGCCTCATCCTCCAAGGTCCACCCC
AACTCTGTGCACATCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAAC
AAGGGCGTGGCCACCAACTGGCTGCGGGCCAAGGAGCCTGCGGGGAGAACGGCGGCCGT
GCGCTGGTGGCCATGTTCTGTGCGCAAGTCCCAGTTCCGCTGCCCCTCAAGGCCACCACG
CCTGTATCATGGTGGGCCCCGGCACCGGGGTGGCACCCCTTCATAGGCTTCATCCAGGAG
CGGGCCTGGCTGCGACAGCAGAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGC
CGCTCGGATGAGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGC
CTCACCAGCTCAACGTGGCCTTCTCCCGGGAGCAGTCCCACAAGGTCTACGTCCAGCAC
CTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCGAAGGCGGTGCCACATCTAC
GTCTGTGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACATCGTGGCT
GAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAG
GGCCGCTACTCCCTGGACGTGTGGAGCTAG

Gene 781. >OTTHUMT00007007439 cDNA sequence

TCCCACCTTTTCGGCAGCCTCTGCAGGCCAGCTCCTGTGTCCCGATGGCCTTTTTTTGCC
TGGCTTTGCCTCACCGCGGCCTCTTGAGGCGCAGCTTTTCCCTTCTGGCGACATCTCCAG
GCCAGAATTCCTCAAATCGGCCTCCCCCGGCCAGTTGCTGCCTGCCGGCCTCCTCTC
CGGGCCAGCTATTTGCTCATGGCTGCGCCACAGGCCAGCTCCTGCCTCCAAACAGCC
TCCTTTGACTCGGCTCCTGCCAGCTCCTGGCAACCTACATCGGCCCAAAGCCTGCTCCA
GTCCAGCTCTCCAGGCCGCCTCTTGCTCGCAGCGGCCTTTCCAGGCCAGCTCTCGCC

Gene 782. >OTTHUMT00007006497 cDNA sequence

ATGCTGACTCATCTGTCCCCTTTCTTCTCCTCCTCTTCTCCTCCTCCTCCTCCTCCTA
GTAGAAGCTGCACCCCTGCCAGGGTCACCTATCAGGTCTGAGGAAAAACGTTTACTCT
CCATCTGCATGGTACGTGCCGTTTGTTCATCACTTTGGGCTCCATATTGCTTCTGGGTCTC

FIGURE 1 (CONT'D)

CTCGTGACCTGGTTCGTCTATTGGCCAAAGCCATCCACAGACACTGCCCCCTGCAAGACT
GGGAAGAACAAGGAACCTACAAAGAAAGGAACGAAGACTGCAGAGAGAGACGTCTGTGGTG
GAAACTATCCAGATGAACACTATCTTTGATGGAGAAGCCATAGATCCACAGGGCCAAGAA
TTTCCTCTTGGTCGGCAAGATGAACATAAGGTAGAGCTGGCCTCCAGAGCTCTCATCACC
CCCGTGAAATCAGCTCCAAATTTAGCTCCTTTTACACTCATCCCTCTGCTTACAAAGGCTC
AATTATAGACGTGAATAA

Gene 783. >OTTHUMT00007006498 cDNA sequence

AGCCGGCGCCGCTGCCACTCCCGGGAGCATGAAGGACCGAACCAGGAGCTCCGCACGGC
CAAGGACAGCGATGATGATGATGATGTCGTGTACCGTGGACCGAGACCGCTTCATGGA
TGAGTTCTTTGAGCAGGTGGAGGAGATTGAGGCTTCATTGACAAGATCGCAGAGAACGT
GGAGGAGGTGAAGCGGAAGCACAGTGCCATCCTGGCATCCCCCAACCCCGATGAGAAGAC
GAAGGAGGAGCTGGAAGAACTCATGTCCGACATAAAGAAGACAGCAAACAAAGTTTCGTTT
CAAGTTAAAGAGCATCGAGCAGTCCATCGAGCAAGAGGAAGGCCTGAACCGCTCCTCCGC
TGACCTGAGGATCCGGAAGACACAGCACTCCACGCTGTCCAGAAAGTTTGTGGAGGTTCAT
GTCGGAGTACAACGCCACGCAGTCCGACTACCGCGAGCGCTGCAAGGCCGCATCCAGAG
GCAGCTGGAGATCACCGGCAGGACCACGACCAGTGAGGAGCTGGAGGACATGCTGGAGAG
TGGGAACCCCGCCATCTTTGCCTCTGGGATCATCATGGAATCCAGCATCTCGAAGCAGGC
TCTGAGCGAGATTGAGACGCGGCACAGTGAGATCATCAAGCTGGAGAACAGCATCCGTGA
GCTACACGACATGTTTCATGGACATGGCCATGCTCGTGGAGAGCCAGACTATGTGGAGAGG
GCCGTGTCTGACACCAAGAAGGCCCGTCAAGTACCAGAGCAAGGCGCGCCGGAAGAAAATC
ATGATCATCATCTGCTGTGTGATCCTGGGCATCGTCATCGCCTCCACTGTTGGGGGCATC
TTCGCCTAGAAGCCACCCAACTGCCACTCCACTCCAGGTGGGCCACTCCAAGGAGGCC
TGGCTGCTGCCACCTGGCTGGGCTGCCCTCCCAACCCCCGCTCTGGCTCAGAGCACCT
CCCTCCCGCCCCCATGCTCCCTTCTCTGCCATGGGCCCTCCGTCCCCGCCCCGTGTCT
GTGCATGATCTCTGTGAGTGTGCGTCTGTACGGGAAGAGGCAGAGGGAGGCAGCCAGCGG
GGCGTGATGCAGTGTGCACAGCGAGGAGCAGACCCAGGCAGGGCCGCCAGGGTGACACAG
GCCACCTTTCCTTGCCTTCAGTAACTCGGTGGGCCAGGTTCTGCTCTTCCCTGGGGACC
CTAACCTCGCCTCCAGCTGACCTGCCCTGTCTCTCCAGCTGTCCCCACAAGCAGAGCCC
TGAGGGGTGGGGACAGCTGGCCACATGGTGTCTTTTTAGGTTAGGGGAGAGGTGGCC
CTGAGGGACAGCCCAGCTCTGAGTCTCAGTCGCTGATCACTGCCAGGGAGGCTCAGGCTG
CCATGGCTCCAGGCTCCCTCCCCTGCCTAGGGGCAAAGTCCATCGGGTCTTGGGCCCTCAG
CTTCCCTTCCCAATTCTCCGGCCCCAGGAGCAACCCCTTGGGCTAGGTCTGACCCCAG
GTGTCCCTCTGGAAGGGGCTGGCTGGTGCCTATTTCCAGCCACCCAGCAGCTAGGGAG
GCAAAGCAGGCTGCAGTCAGTCCCTCAAGCCAGCGTTGCATGTTTGGGATGGTGGCTCCT
GTTGTCTTGCGCTCTGGGAAGTCAGATGTCAATTTAGGCCTGCAGTCTCATCCTGCCCTT
GCCATCCTCCCATCGATGTGCCACGTGGGTGTACGTGTCCAGATGCAGTATTTCGGCAG
CCAGCCGGGGAGGGCTACCTCCTCCTCCTCACCACCTTGGGGCTTCTCATGGGAAATGTG
CCCCCGCCCCAGGACCTCTCCCTTGTGGACAGGCAGGGAGATGCATGCGAGTGCATGCA
GCAGGGGATGGGGCCGTGTCCGTGTGCCCCACCTCCCTCGGCTTTACTCCTGCCCAGTG
ACTGTGACCACTGTCCGTGTTGCCTTCTTGAACAGCGATTCCCCCAACCCCTTCACCAA
AGGTCTTGGTACAACCAGCTGCCCATTTTGTGAAATTTTATGTAGAATAAACATTTGTA
TCTGTA

Gene 784. >OTTHUMT00007007443 cDNA sequence

GGAATTCATGTGCATCAGTCAGACCTCCTGTGCAAGGAAGGATGTGGTTACTACGGCAAC
CCTGCCTGGCAGGGTTTCTGCTCCAAGTGCTGGAGGGAAGAGTACCACAAAGCCAGGCAG
AAGGAGATTAGGAGGACTGGGAGCTGGCGGAGCGACTCCAGTGGGAGGAAGAGGCCTTT
GCCAGCAGTCAGAGCAGCCAAGGGGCCAATCCCTCACATTCTCCAAGTTTGAAGGAAAG
AAAACCAACGAGAAGACCCACGAGGTTACCAAGTGAAGAAATCTTCAGTGCCTCTTCCA
GGGTCCGATCAAAGAAGGAAATTAGGAAGCAAAGCCAGTCTTCCATAAACCGGCGAA
CCAGCATTGAAACGGATAGAGTGTCTAAGGAGTTCATAGAATTTCTCAAGACCTTCCACA
AGACAGGCCAAGAAATCTATAAACAGACCAAGCTGTTTTTGAAGGGATGCATTACAAA
GGGTAGTCAAGGTGATCACAAGTGCCATGAGTGCTTGGCCATTTTCACTGAGGGAATGA
GCTTTTCTGTCTGTTTGGCTATTTAGTGCCCTCCAGAAAGGGTTGAGAAGATAATGGATC
AGATTGAAAAGTACATCATGACTCATCTCTGTAAATATGCGTTCTGTCCAGAACCCCATG

FIGURE 1 (CONT'D)

TGGTGGCACGATCTCGGCTCACTGATGATGAGAAGAAAGATCTTGCCATTCAAAGAGGATCAGG

Gene 785. >OTTHUMT00007007445 cDNA sequence

GCGGCTCCATGCGTGAGGCTGGTGCCACGCGGTCTCCCGGTGTTGGCATTGTCTCCAGGC
CTTCTCCTCAGTTCTGCACACAGCTACAAAACAAAAGAACAGTTGCCAGCACTTGGAAGA
GGATGTGGATCCAAACCAAATGGAGGACAGATACTCCCTCTATGGACAAGATACTCATGG
AAGAAGTCAAGTTAGAAGAGCAGCTGAAGGAGGCTGTGGAAGAAGATAAGCAAGCACTGG
CAGATACTGAGGGCTCAGAGCAGAGCAGCCAAAATTGGTGGAGGAGGAAATATGTATA
GCATTCAAGGCTTCTGCAAGGACTCGTTAGAGGTTGCAGATGTTTTGGAGAAGGCAACAC
AGTGTGTTCCAGAAGAAGAAATTAAAGACAATAACCCCTCACCTGAAGAACCTCTCTCTGT
GAGACTCACAATGAGTGAAGTCCAGATTGAGGAAGTGTTCAGCAAGCACTGCCAAGATGA
ACTCTGTCAAGCAAGTTCCACCCCTTATGAGCGTGAGGGTCTTTTT

Gene 786. >OTTHUMT00007007446 cDNA sequence

GGGAGCTCATCTCGGCCAGCCTCTTTGAAAGGAGGAACATTGGTGCAGCCATTGGAAC
CTTATCCTTTATAAAATGGGACAGCTCACAGGATTACATTTT

Gene 787. >OTTHUMT00007007447 cDNA sequence

AGGTGAGACAAGGGCAGCATGTCTGAAGACTGCGGGCCAGGAACCTCTGGGGAGCTGGGT
GGGCTGAGGCCGATCAAATTGAACCAGAGGTTCTGGACATCATTAGGTCACTGTCCCA
GATGCCTTGCCAACCTCTGAGGAAATGACAGACTCAATGCCTGGGCACCTGCCATCGGAG
GATTCTGGTTATGGGATGGAGACGCTGACAGGAAGGCCCTCAAAGGGCTCTGGCAGCTT
TGCCCCCTACACAGGCATGAGACACAGGGGTTGAGATTCTGGCCCTGTGGCACCGGGTG
GCCTTACAGCAGCCATGTCTCTGCAGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGT
GCCATACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGGCTGCCTGAAGG
CATCTCTCTCCACAGGCCCAACTGCTTCGGGATCGCCAAGCTCTGGAAGATTCTGGAGGC
CAGCAACAGCATCCAGTTTGTTCATCAAGAGG

Gene 788. >OTTHUMT00007007472 cDNA sequence

AATGGAAACAGAAATCAGATATTTATGCCCAAGCAAAGCAGGATTTTCGTTTCAGCACTAC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGACAGGAGATGCT
ACTGCCCCGGCTCAAGGAGGTCTGGAGTACAATGCCATTGGAGGCAAGTATCACCGAGGT
TTGATGGTGCTAGTAGCGTTCCGGGAGCTGGTGGAGCCGAGGAACTGGATGCTGATAGT
CTCCAGTGGGCACCGACTGTGGGCTGGTATGCGCAACTGCTGCAAGCTTTCTTCCTGGTG
GCAGATGACATTATGGATTTCATCCCTTACCTGCCAGGGACAGATCTCCTGGTATCAGAAG
CTGGGCATGGGTTTGGATGCCATCAATGATGCTATCCTTCTGGAAGCATGTATCTACTGC
CTGCTGAAGCTGTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATGGAGCTCTTCCAG
CAGAATTCTTATCAGACTGAGATTGGGCAGACCCTCGACCTCATCACAACCCCCCAGGGC
AATGTGGATCTTCGAGATGCACCGAAAAAAGGCACAAATCTGTTGTCAAGTACAAGACA
GCTTTCTACTCCTTCTACCTTCTGTAGCTGCAGCCATGTACATGTCAAGAATGGATGAC
AAGAAGGAGCACACCAAGTGCCAAGAAGATCCTGCTGGAGATTCAAGAGTTCTTTAGATT
CAGGATGATTACCTTGACTTCTCTGGGGACCCAGTGTGACTGGCAGAGTTGGCAATGAC
TTCCAGGACAACAAATGCAGCTGGCTGGTGGTTTCAGTGTCTGCTACAGGCCACTCCAGAA
CAGTACCAGATCCTGAAGGAAAATTACAGGCAGAAGGAGGCCGAGAAGGTGGCCCCGGGTG
AAGGCACTATACGAGGAGCTGGATCTGCCAGCCGTGTTCTTGCAAGTATGAGAAAGACAGT
TACAGCCACGTTATGGGTCTCATCGAATAGTACGAGAGCCCTGCCCCCAGCCATCTTT
CTGGGGCTTGTGCACAAAATCTACAAGTGAAAAAG

Gene 789. >OTTHUMT00007007474 cDNA sequence

GTGTGTCTCTCAGAGGCCTGGCGCCGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCGAGAAGGACACCCACCTGGATTGCCCCATAGGCCCGGCCCGGGCCCCCTCG
GGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGTGAGCAGACGCGTGCGCC
AGCGACAGCAGCCCCGCCCGGCTCTCAGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAG
GAGGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACATTG
CAG

Gene 790. >OTTHUMT00007007476 cDNA sequence

AGCGATGTCAACATTTCTACCTGCCACGCATCGGTGAAGGTTGGGACTCGACTGGTGTTT
GATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTC

FIGURE 1 (CONT'D)

AGCGTGAAGCAGTTATTTTCTACACTACCTGTGCGCCATAAGGAATTTCAAAGGAATGTT
AAGAAGGTACAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCAGTTTCCTGAG
GCCTCCCCAGCCATGCTTCCTGTACAGCCTGCAGAACTGACTCCTAGAAGGACCCACCC
CCCTCCCCCACCCTGCTCCCAGGAGGACAACGTGATCACTGTATTAGCTCCATCAAG
AATGGTCCAGGTTCTTCTAGA

Gene 791. >OTTHUMT00007006825 cDNA sequence

AGCGACCGCAGCCGGGGGGACGCGGGAGGATGGAGCAAGTGGAGATCCTGAGGAAATTCA
TCCAGAGGGTCCAGGCCATGAAGAGTCTTGACCACAATGGGGAGGACAACTTCGCCCCGG
ACTTCATGCGGTTAAGAAGATTGTCTACCAATATAGAACAGAAAAGATATATCCCACAG
CCACTGGAGAAAAAGAAGAAAATGTTAAAAAGAACAGATACAAGGACATACTGCCATTTG
ATCACAGCCGAGTTAAATTGACATTAAAGACTCCTTCACAAGATTGAGACTATATCAATG
CAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGACCTTTAG
CAAATACAGTAATAGATTTTTTGGAGGATGATATGGGAGTATAATGTTGTGATCATTGTAA
TGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAAATGTGAGCGCTATTGGCCTTTGTATG
GAGAAGACCCCATACGTTTGCACCATTTAAAATTTCTTGTGAGGATGAACAAGCAAGAA
CAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGGCTGTATC
AGTTTCATTATGTGAACTGGCCAGACCATGATGTTTCTTCATCATTTGATTCTATTCTGG
ACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTTCTATTTGTATTCAAT
GCAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTGCCATAGATTATACGTGGAATTTAC
TAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAATACAAGAAATGAGAA
CACAAAGGCATTCTGCAGTACAAACAAAGGAGCAATATGAACTTGTTTCATAGAGCTATTG
CCCAACTGTTTGA AAAACAGCTACA ACTATATGAAATTCATGGAGCTCAGAAAATTGCTG
ATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAGCCTGAAAAACAAG
ATTCTCCTCCTCCAAAACCAAGGACCCGAGTTGCCTTGTTGAAGGGGATGCTAAAG
AAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCCACCCATCTTGACACCTTCTCCCC
CTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCATCCAAAGC
CAGTGTTGCATATGGTTTTCATCAGAACAACATTGAGCAGACCTCAACAGAACTATAGTA
AATCAACAGAACTTCCAGGGAAAAATGAATCAACAATTGAACAGATAGATAAAAAATTGG
AACGAAATTTAAGTTTTGAGATTAAGAAGGTCCCTCTCCAAGAGGGACCAAAAAGTTTTG
ATGGGAACACACTTTTGAATAGGGGACATGCAATTAATAATTAAATCTGCTTCACCTTGTA
TAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTGAGATCTAAATGTGCGTGATACTT
CCCAGAATTCTTGTGTGGACTGCAGTGTAACACAATCAAACAAAGTTTTGAGTTACTCCAC
CAGAAGAATCCCAGAATTCAGACACACCTCCAAGGCCAGACCGCTTGCCTCTTGATGAGA
AAGGACATGTAACGTGGTCATTTTCATGGACCTGAAAATGCCATACCCATACCTGATTTAT
CTGAAGGCAATTCCTCAGATATCAACTATCAAACTAGGAAAACCTGTGAGTTTAACACCAA
GTCCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCACCACTCT
TCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCAGATGAAA
GAAACTCTGATGGTGCTGTGACCCAGAATAAACTAATATTTCAACAGCAAGTGCCACAG
TTTCTGCTGCCACTAGTACTGAAAGCATTCTACTAGGAAAGTATTGCCAATGTCCATTG
CTAGACATAATATAGCAGGAACAACACATTGAGGTGCTGAAAAAGATGTTGATGTTAGTG
AAGATTACCTCCTCCCCTACCTGAAAGAACTCCTGAATCGTTTGTGTTAGCAAGTGAAC
ATAATACACCTGTAAGATCGGAATGGAGTGAACTTCAAAGTCAGGAACGATCTGAACAAA
AAAAGTCTGAAGGCTTGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCGGGAGGTA
TTCATATGAAATGTGCATAGAATGTCCACCTACTTTGAGTGACAAGAGAGAACAAATAT
CAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGATGTGGAAAACCCAAAG
GACCAAGAGATCCACCTTCAGAATGGACATGATTGAGGAGCTAGAAGACACTTTAAGTT
ATACTGGAAAATTGAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTTAATATGT
GGGACTAACAGCAGTGTAGATTGTTACCTTAATATTTTTGCTGGGACCATCTACCTGCC
TTATACTACACTTAGGAAAAAGTATTACATATGGTTTATTTTGAACTTCAAGTATTATT
GCCTTAATGTCTCTTAACCTGTTACACGCTGCTTGTAGACATGTTAATATAGTAATACC
TTTATGATATATTGAGTTTAAGGACTACTCTTTTTCTGTTTTATCATGTATGCATTATTT
TGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAATATTATTA
ACAGAAGATGTAAGAAATTTCTGCATGGTCTAAATCTTTGTGTACTTTATTTGTAAATTA
TTTGCCCTGGAGTTTTAGAAAATAGTTTCTGAATTTTAACTTGCTGGATTTCATGCAGCC

FIGURE 1 (CONT'D)

AGCTTTGCAGGTTATCAGAGATCAAAGATTGTAATAATAATTTTGTAAATTGTAAGCAA
AAGTTATTTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTCCCTGTTTTCATCT
AGTCAGAGATTAGTAAGTGCCTTGGAAACAATATTGAATTCTCTTAGCTTGTGTGTGTTT
CTTTAATATTTGAACTCAAGTGGGATTAGAAGACTATCAAAATACATGTATGTTTCAGGA
TATTTGACCTGTCATTAAAAAAAAACAAACAGTTTTTACAGTG

Gene 792. >OTTHUMT00007006838 cDNA sequence

TCTCCGGCGCGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGCGCATAGCGAGTGTCAAG
GCCGGCCGGGGCGGCGCTTCTCGGCCTGTCGCTGGTCCGGCCTCCTACTGTACCTCGTGCC
TGCTGCGGCTGCGCTGGCCTGGCTGGCCGTGGGGACTACCGCGGCCTGGTGGGGACTGAG
CCGCGAGCCCCGAGGTTGCGGCCCCCTTGTCCTCCTTCGTTCAGAAGGCGCGACATCGGCG
AACACTGTTTCGCTTCGCCTCCGGCCAAGTCGACAGCCAACGGAAACCTCCTAGAGCCGCG
GACCTTGCTCGAAGGACCTGACCTTGCCGAACTGCTCCTCATGGGCAGTTACCTGGGCAA
GCCCGGGCCGCCGAGCCCCGCCCCCGCTCCGGAGGGCCAGGACCTGCGGAATAGGCCTGG
CCGCCGCCGCCGCCGCCGCCGCCGCTCCACACCGCCCTCCCCGCCGACCCATCGCGTT
CACCACTTTTACCCCTCTCTCCCCACTCCTCTTCTCCGACCTCCGGGAGGCCTTCCCCA
CGGGATCGTGGGACTTTACCAGATCGGTTTGTAATAACACCTCGAAGACGCTATCCGATC
CATCAGGCCCAGTATTCCTGTCCGGGGGTACTTCCACAGTGTGCTGGAATGGTTATCAC
AAGAAGGCTGTGCTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGACTCTGAGG
ATCGCCCCCTCCTGACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGCTCA
ACACTGTCTCTACCATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGT
GCCCTCAAAGAGAAGAAGAAGAAAAGGACAGTGAGGAAGAAGACCAAATATTCTTGAT
GGCCAGGAAAATAAAAGAAGCTGTCTTGTCGACGGTCTCACTGATGCCTCTTCTGCATT
AAAGTTCTCGACCCGGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTTGCT
AATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTACCCCTAGCTGAGCAG
GACCCAGATGAACTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAACAGCTGGTTCCA
GTGGAAGGCCTGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCAGCTCCAAGC
CATTCAGGAGGCAGCCTCGTGTGCTGAGCCAGTGGTCCACGTCGTCTTCCCTGTAACCG
CAGGCATGTGACAGAAGAAGCAGATGTACCGCTGGGGCCACTGATCTTCTCGGACAGGAG
GGGTGACCATGAAGTAGAGCAGTGGGCTTTGCTTCTGACACCTCAGTGGTGTGCTGTGGG
CGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTTATCCTGGTCTCACAG
GAGGTGTGCGACTGCCTCCACCCCTGTGTCTGCTTCCGAATAAAAGAAGAAAGCAA

Gene 793. >OTTHUMT00007006839 cDNA sequence

ATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGGCTTCAGTGTCCCATCTGCCTG
GAGGTCTTCAAGGAGTCCCTAATGCTACAGTGC GGCCACTCCTACTGCAAGGGCTGCCTG
GTTTCCCTGTCTACCACTGGACACCAAGGTGCGCTGCCCATGTGCTGGCAGGTGGTG
GACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGGTGATCGAAGCCCTGAGGCTC
CCTGGGGACCCGGAGCCCAAGGTCTGCGTGCACCACCGGAACCGCTCAGCCTTTTCTGC
GAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGCTCCACCAACACCAC
CCGGTCACGCCCCTCTCCACCGTCTGCAGCCGATGAAGGAGGAGCTCGCAGCCCTCTTC
TCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCATCGCCAAACTGGTGAAAAAC
CGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGGTGATCCGCCGCGAGTTCAG
GAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCCTGGAGGGGATAGGGGGTCAC
ACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCCGGAACCCGGGAG
CGGCTGGCCCAAGCCGAGTGTGTGCTGGAAACAGTTCGGAAATGAGGACCACCATGAGTTC
ATCTGGAAGTTCCTACTCCATGGCCTCCAGGTAA

Gene 794. >OTTHUMT00007006851 cDNA sequence

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCAGGCTTTGGCCTCTAGTG
GATGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGG
GCGGGAGCTGTGCGGCCAGGGTTTCGCGCGGGCCGGGTAGAGGCTCGAGCCGGGACCCCC
GAGCGTGAACCCCGAGCCAGCGGCGCTGGGGCCAGAGGGCCAGGCGGGAGGTGGTGGC
GGAGGCGAAGGGGCGACGGGACCTGGGCTTGGCCCGTGTGTCTTCGGCGGCCCTGGCGC
CGGCCGTCGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCG
CTTGGATTTGCCCCGTAGGCCCCGGCCCCCGGCCCTCGGGAGCAGAACAGCCTTGGTGAGG
TGGACGGGAGGGGACTTCGCGAGCAGACGCGCGCGCCAGCGACAGCAGCCCGCCCCGGC

FIGURE 1 (CONT'D)

TCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGCCAGTGTCAATTCAAAG
ATGTGGCTGTGGATTTACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGG
CAACATCTTGTACTTCGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTTC
CCATTAAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTTGGAGCAGGGAGAG
GAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCTTACATCCTC
AGCCGAAGATCTCACTTCCTCCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAATCGGTTTGTAAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAG
TATTCTGTCTGGGGGTACTTCCCACCGTGTGCTGGAATGGTTATCACAAGAAGGCTGTG
CTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGAAGTGTGAGGATCGCCCTCCT
GACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTCCTCA
CCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCTTGATGGCCAGGAAAAT
AAAAGAAGGCGCCATGATAGCAGTGGCAGTGGACATTGAGCATTGAGCCCTGGTGGCC
AATGGAGTCCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCT
CAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACA
GGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCCTACAGC
TCCACTCGAGGCATCTCACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCT
AGCCAGCCTCCTCCCCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAG
GAGCTGTGTCACTATTCCAGTTCCTCAACTCCATTGGCAGCAGACAGGGAGTCCAGGGA
GAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCT
GGCAGCTCTGGGCAGCGTAAGCGGAAAGTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCTCCACCTCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTA
GAGAAGAAGGCTTCATTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCC
TCGAACTCTGTCACTGAGACCCACCTATCACTCAGCCTTCATTTACCTTTACCCTGCCT
GCTGCTGCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTA
GAGAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCCAGAATCTGCTGGA
GCAGCAACCACTGAGGCCCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGT
TTATCACAGTCAGGGCCGCCAGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAAACCCCCG
ACCACTTTGCTGGGGCTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCA
CCTCCAACCTTCAGGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCC
GCCCCAAGCAAAGCTTCTGTGTTTGGAAACAGAACACCTCACCTTCCAGCCCTGCCGCC
CCTGCTGCATCTTCAGCACCTCCCATGTTCAAGCCCATTTCACGGCTCCACCCAAGAGT
GAGAAGGAAGGCCCCACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCC
TCCCTCCCCACGACCACAGCACACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATG
GGGCCACCTGCATCTGTGCCCTTGCCCTGCTCCCTTCTTCAAGCAGACAACTACTCCCGCC
ACTGCTCCCACCAACTGCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTTCGAAGCCTGCGTTTGGCTTT
GGCATAAACAGTGTGAGCAGCAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCC
TCACAGCCTTTCTCTTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTACCCCGGCCATG
GGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCCAACCAACCAAGTCACCAAC
TTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTT
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTG
ACGTTACAGTAACAGGACACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCC
CCGCTCCCATCATATCCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAG
CCACCGGGGGCCGCAAGCCGGCCCTTGCCCCAGCTTTGGCAGCTCTTTCACTTTTGGA
AACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGGTCGTG
CCTGCGTACGTGCCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTT
GGGTTGAAAGCCACGGCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCTTTGGC
GGCTCCACTGCTGTCTTCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCCAG
ACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACACCATCACCTTACG
TTTGGGGGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA
GGCTCCAGCACCAACACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCC
ACCTCCACCCCTTCGAGGGGGCTTAGGTGAGAACGCCCTGGGCACCAACCGGCCAGAGC

FIGURE 1 (CONT'D)

ACACCGTTTGCCTTCAACGTGAGCAGCACAACTGAGAGCAAACCTGTGTTTGGAGGCACC
 GCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGC
 CTCTCCTTTGGGGCATCCTCAGCACCCGCCAAGGCTTTGTTGGTGTTCACCTTTTCGGC
 AACACTTTTGTCTACCAGCAAGAACACAGCCCCGAGGAAGGGACCCAATAACCTTTCAAAA
 CGCAAACCTGCTGCCTGCGGTGAGGGCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCC
 TTTCCACACAGGAAGGAGTGAGCCCGAGCCTCTGCTATGTGCAAGGCGGTGTGCAAGCA
 CCGGCTGCAGCTTTTTGCTCTCTTCTTTCTCTTTGGGGCTGGGCTGGGTGTGCGTTCTGG
 TGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
 CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCACGTGCGCATCTCGACCCGTTCAA
 TTACAGCAACGAAGAAGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGAGGCAGTGCT
 CGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCCGGGCAGGCAGGGCGGGAGCTAGCC
 TGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTACCCCATCCCCCCTCCAC
 GACCCTGGCGCACGCCCTGTACCTGAAGGCGCCGGGTTCTGCTGCAGCGCATCTTGCTAC
 CATGTCTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGA
 AGGGAAAGTGAGCGCGTGGCACAGGGCTCGCTGCTGGAACCTGCCAGGGCATGCAGACG
 CACCGGGCTAGGTGTCCCTGCCCCGGGCTCCTCCAGCTGTCTGCTCGGCATACCTAAGGA
 AAAGCGTGTCTCGGTTACACAGCTTACAGGCTGCCTCAGTCCTGAAATCCTCGCTCCTG
 AAATCCTCGCTTACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCATTAAAGTGTCA
 GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCTGAGTCCCTCA
 GCCACGCCTTCTCACCATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTG
 GACCTCACGATAGCGCGGATCTAAGGGGGAGACCGCCAGGAAGTCCTCCTCAGCCAGCTC
 ACAGCAGGAGACGCCAGGCCAGGCCAGCAGCGTGGCCATGGATGCCAGCCGCCTGGCATC
 CAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
 ATGGAGCAGCTAAGGGCCTGTACAGCTGACACAGACAACAGAACATGCAGGTTAAGCC
 AGGACACACAATATTGAAACAGCCTATATTTAAAGGGCCAGGGTCAAGAGTAACTGGCC
 TGGGGTCTCTGCCCCAAGGGCTAAGGGATCCACATCTCACACCTGCAGTGGGGAAAGCTT
 AGCTTGGGGCAAATACCGTGAACCTACTTTGGTGCAGCAGGAAAGAGTTAAGCGAAAGTCA
 TCCTTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCCTCCTC
 CTCTGTGGCACTCACCTTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGC
 CTGGGGTGGCACAGGCATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGG
 GAGACAGCTGGCCTGGCAGGCAGAACACAGGGGCCGGGTAAACAGAGACCCAGGCTAGG
 CCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCTTACCCTGTCTGCAG
 AATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTATGCAGATCTGTCTGGGCGGGAAACAC
 CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCCTTGAGGGCTCGTAAGTC
 ATCGAGGCTGCCAGGGAAGAACCATTCAATTCATCATTTTCTGAAATTTCTCCCTGCCAGGC
 CCTATTTCAACGGTCCATTATGCAACAAATGTTACCACAGCTATGGAGAAATCAACAGG
 GTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCAAGCCAGACTTATGGG
 TCAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
 GCCCCACTGGCATCTCTGTAAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAA
 GATACTTACGTGCCACAATTTAATAAATGTTAGCTATTCTGTGTAAGCATAACCTTGGA
 GAAAGGTTACTTTACAGGGGGGTGAGGAGTGGGGAAGTGAGAGCTGAGCTCATTCTTGAT
 GGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTATAACTCAGTA
 AAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGGGAGTCACATGTCTCA
 GTTCAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCT
 ATTCACCCCTGGTGTCCAAGCAACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGT
 AAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGAGCCACCAAAGGACAAAATAAGACA
 GGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTGGCACGCTGG
 TGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
 CCAAGAAAGGACTTAGCATGGCCGGGCGCGGTGGTTCATGCCTGTAATCCAGCATTTTG
 GGAGGCCAAGGTGGGCAGATCACCTGAGGTGAGGAGTTGAGACCAGCCTGGCCAACATG
 GAGAAATCCCGTCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGTGCATGCCTGCA
 ATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGAAAGGGAAGA
 CATAAGAAATTCCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAAT
 TTGTGACTTTGCCCCAAATTTGAGCTCACAAAAACATGTGTTGTATGGAATCAAGGTTTA

FIGURE 1 (CONT'D)

AAGGATCTAGGGCTGTGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

Gene 795. >OTTHUMT00007006868 cDNA sequence

GTGGCGGCGGCGGCGGACCTTGGGGTCTGGACGCAACGGCGGCGGGAGCATGAACGCCC
CTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACCATTAAACAAGG
ACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCACACACTGGGAA
ACATCATTAAATCACAACCTCTAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTCC
CCCACCCCTTGAGACACAAGATCATCATCCGAGTGACAGACCACGCCGACTACAGCCCCC
AGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAGC
GCTTTCGGGTGGCCATAAAAGACAAGCAGGAAGGAATTGAGTAGGGGCCAGAGGGGGCTC
TGCTCGGCCTGTGAGCCCCGTTCTACCTGTGCCTGACCCTCCGCTCCAGGTACCAACC
GAGGAGAGCGGCCGGTCCCAGCCATGGCCCCGCTTGTGGCCACCCCTCACCTGACACCG
ACGTGTCTGTACATAGATTAGGTTTTATATTCTAATAAAGTATAGCGGGAGAGA

Gene 796. >OTTHUMT00007007831 cDNA sequence

ATGTCTTCCCCACTGCAGAGAGCTGTGGGAGATACCAAGAGGGCCTTGTCTGCATCTTCT
AGTTCCTCTGCCAGTCTACCTTCGATGACAGGGACTCAAACCATCCCTCAGAGGGTAAG
AATACTGACTCTTTATTAGCTGATGAAGGCAGTGACTTTGAAGATAGCTTCAATCGCAAT
GTGAAGAAGAAAGCAGCAAAACGACCACCGAAAACAACACCGGTGAGTGGCAAACAACGA
AAGAAAGGGTCCCGAGTGGTACATCGTCATAGCCGAAACAGTCAGAGCCACCAGCCAAT
GATCTTTTCAATGCGGTGAAAGCTGCCAAAAGTGACATGCAG

Gene 797. >OTTHUMT00007007834 cDNA sequence

CCGCCCCCTCCCGTCCCCCGCCGCCCCCGCCCTCAGCGCCCGGACACCAAGCCCGGC
ACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACATCGGCGGCGCCTGCC
AGCGTGGAACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTAAATGGTTCAATGTA
AGGAACGGATATGGTTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAG
ACTGCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTG
GAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGGT
GGTGTTCGAGTTCAGGCGGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCA
CGTCATAGGGGTCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGAA
AAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGC
AGGCAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGTGACCACAGTATTCC
AGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGACAGGAGAACAA
GGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGAGGGGCCCT
CCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGA
CCCAGGGTCAGCAGCCACCTCAACGTCCGTACCGCAGCAACTTCAATTACCAACGCAGAT
GCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTG
AGAATTCTGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAG

Gene 798. >OTTHUMT00007007835 cDNA sequence

CTAGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTCAGACAATGGATGT
GGGGTAGAAGAAGAAAACCTTTGAAGGCTTAACTCTGAAACATCACACATGTAAGATTCAA
GAGTTTGCCGACCTAACTGAGGTTGAAACTTTTCGGCTTTCAGGGGGAAGCTCTGAGCTCA
CTGTGTGCACTGAGCGATGTCAACATTTCTACCTGCCACGCATCGGCGAAGGTTGGGACT
CGACTGGTGTGTTGATCACTATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGA
GGGATGACAGTCAGCGTGAAGCAGTTATTTTCTACACTACCTGTGCGCCATAAGGAATTT
CAAAGGAATATTAAGAAGGTACAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGT
CAGTTTCCTGAGGCCTCCCCAGCCACGCTTCTGTACAGCCTGCAGAACTGACTCCTAGA
AGGACCCACCCCCCTCCCCCACCCTGCTCCTAGGAGGACAACGTGATCACTGTATTTC
AGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 799. >OTTHUMT00007007837 cDNA sequence

GCGGAGGGGACAGTCTGTGCTTGATGGTTCGAGGCCATCTCCTGGGCGCCTGGCGGCC
ATCGTGGCTAAGTAGGTACTGCTGGGCCGGAAGGTGGAGGTCGTACGCTGTGAGGGCATC
ATCATTTCTGGCCATTTCTACAGATACAAGTTGAAGTACCTGGTCTTCTCCGCAAGCAG
ATGAACACCAACCTTCCCGAGGCCCTACCACTTCCGGGCCTCTAGCCGCACCTTCCGG
CTGACCTCGAGGCATGTTGCCCCACAAGACAAAGCAAGGCCGGGCCGCCCTGGAGCGCCT
CAAGGTGTTTGACGGCATCCACCGCCCTATGACATGAAAAAGCGGATGGTGGTTCTGCTG

FIGURE 1 (CONT'D)

TGCCCTCAAGGTCATGCATCTGAAGCCTACAAGAACTTTGCCTACGTGGGGCGCCTGGC
TCACGAGGTTTGTCTGTAAGTACCTGGCAGTGGCATCTACCCTGAAGGAGAAGAGGAAGGA
GAAAGCCAAGATCCACTATCGGAAGAAGAAACAGCTCATGAGGCTATGGAAACCGGGTGA
AAAGAACGTGGAGAAGAAACTGACAAATACACAGAAGCTCTCAAGACCCATGGACTCCT
GATC

Gene 800. >OTTHUMT00007007838 cDNA sequence

GTGTGTCTCTCGGCGGCCTGGCGCCGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCGAGAAGGACCCCCGCCTGGATTTGCCCCGTAGGCCCGGCCCGGGCCCCCTCG
GGAGCAGAACAGCTTTGGTGAGGTGGACAGGAGGTGACCTCGCGAGCAGACGCGCGCGCC
AGCGACAGCAGCCCCGCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAG
GAGGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACATTG
CAGGGGCCAGTGTCAATTCAAAGATGTGGCTGTGGATTTCACCAGGAGGAGTGGCAGCAA
CTGGACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCTA
GTTTCTGTGGGGTATGATTATCACCAAGCCAAACATCATCATGGAGTGGAGGTGAAGGAA
GTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCCA
GGACCTGCCAAGGCAAGGGGCCCTATT

Gene 801. >OTTHUMT00007006892 cDNA sequence

ATGGCCTGGGCCTGGGCTCGTGACCTTCCCTGGAGGCCATGGTGGTGGTGGTGGTGGTGG
CAGGTGTGTTCCCGTCTCCACCCCTCAGGGAAGAAGCAAGTTCCAGGAGCCTGGACTTTT
GCCCTGCGCACTCTCTGTGTGATGAGGAGACAGCCATGAGGACAGACACTTGAAGTAC
CCTATAACTGGCACCATGCAAGAGAGACAGGCAGGAGGAGACTGTGGGAGCTCAGAGGAG
ACACTTGTGCTGGCCTGGATCAGGGAGAAAGGAGGGGTGTGCGGAGGCTTCTTGAAGAA
GTGGCTTCTGGATTAATTATTGAACCTGAAAGTCACTGCGCGCTCTTCTCGCCCGAAGCC
GCAGGTGGCTGCGATGGGACGGAAGCCATGAATGGTGCCGGCCCTGGCCCCCGCCGAGCC
GCCCCGGTCCCAGTCCCAGTCCCAGTCCCAGTCCCAGTGGCGGCAGTTCTGCGAGCTGCATGCG
CAGGCGGCCCGCGTGGACTTTGCGCACAAGTTCTGCCGTTTCTGCGGGACAACCCAGCT
TACGACACGCCCGACGCCGGCGCCTCCTTCTCCCGCCACTTCGCCGCCAACTTCTTGGAC
GTCTTTCGGCGAGGAGGTGCGCCCGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG
GTGAGCGCAGAGGCCATGGAGCCGAGCTCGCGGACACCTCTGCACTCAAGGCGGGCGCCC
TACGGCCACTCGCGGAGCTCGGAGGACGTGTCCACGCACGCGGCCACCAAGGCCCGCGTT
CGCAAGGGCTTCTCGCTGCGCAACATGAGCCTGTGCGTGGTGGACGGCGTGCAGGACATG
TGGCACCGGCGCGCCTCGCCCGAGCCCGACGCGGCAGCTGCCCCGCGCACCGCCGAGCCC
CGCGACAAGTGGACGCGGCGCCTGAGGCTGTGCGGACGCTGGCTGCCAAGGTGGAGCTG
GTGGACATTCAACGCGAGGGGGCGCTGCGCTTCATGGTGGCCGACGACGCGGCGCGGGC
TCCGGGGGCTCGGCTCAGTGGCAGAAGTGCCGCTGCTCCTGCGCAGGGCTGTGGCCGAG
GAACGCTTCCGCCTGGAGTTCTTCTGCGCGCCCAAAGGGCTGGCCATCAGGTCCCTGGCA
GTAGTGTACGTCTTCTCCAAGGTGGCCCCCTGCTTTGGAAAGTGGGAATAGCTGTAAC
AATAGTGCCCAACCTCTGAGAGCCACAGTGTGTCCAGACCCAGCCTGGTGGGCATCTG
CACAGACACACTGTATCCTCTGGGTACCCACCCAGCGAGTGTCTGCTGCCCTCGGAG
AAGGGGAAGGAGCAGCTGGTGGCCGCCCGCCCGCCCACTCCACCGCTTAGTCCCAGCAGAG
CCCACTAATTTTGTGCTGGCAGAGGGCAGCGTTCCTGCGAGGGTCACTGGGCCCCCTCCCC
TCCTTTGTGTGATGCAAATTTGAGGTGCCAGCCCTGGCCTCCAGGCCCAAGGTGAGCATC
CCACTGTGAGCCATCATTGAGGTCCGACCAACCATGCCCCCTGGAAATGCCAGAGAAGGAT
AACACATTTCGTCTCAAGGTAGAGAATGGAGCCGAATACATCTTGGAGACCATCGACTCT
CTGCAGAAGCACTCGTGGGTAGCTGACATCCAGGGCTGCGTGGACCCCCCTCTGTGAGGCC
TGCTCTATGGGGCCAGGGCCTGGGGACCTGGAAGGAAGTTGGACCAGGTCTTGTCTTAC
CCCAAGAGAGCCTCAGAGCACTGGGAGTTGGGCAGAGATGGCGAACAGGGTGCAGAGACG
GATCCCAGGCTGAACCCGAGCTGGAGCTATCCGACTACCCATGGTTCCACGGGACACTG
TCCCGGGTCAAGGCTGCTCAACTGGTTCTGGCAGGGGGGCCCGGAACCACGGCCTCTTC
GTGATCCGCCAAAGTGAGACTCGGCCTGGGGAGTACGTGCTGACCTTCAACTTCCAGGGC
AAGGCCAAGGCATGGCCCCACCGTGCAGGAGGTAGCACCTCCACCAGGGACATTTCTTG
GCAAGCAGCCACCCTTACAGTTCTCCGACAACCAGCACCTGCGCCTGTCCCTGAACGGC
CACGGCCAGTGTACGTACAGCATCTGTGGTTCCAGTCTGTGCTTGACATGCTCCGCCAC
TTCCACACACACCCCATCCCACTGGAGTCAGGGGGCTCGGCCGACATCACCTTCGAGC

FIGURE 1 (CONT'D)

TATGTGCGGGCCAGGACCCCCACCATGTGGCCAGCCAGGTCCCCACTCACGCCCTGC
CGTCGCCTTGTTGCAGAGCCGGGCCCCACGCCCCCTGCCGCGCCGCGTCCCCGGCCTGC
TGGAGCGACTCGCCCGGCCAGCACTACTTCTCCAGCCTCGCCGCGGCCGCTGCCCGCT
GCCTCGCCCTCCGACGCCGCCGGCGCCTCCTCGTCTTCCGCTCGTCTCTCTGCCGCG
TCGGGGCCCGCCCCCGCGCCCCGTCGAGGGCCAGCTCAGCGCGCGGAGCCGAGCAAC
AGCGCCGAGCGCCTGCTGGAGGCCGTGGCCGCCACCGCCGCGGAGGAGCCCCCGAGGCC
GCGCCCGCGCGCGCGCGCCGTGGAGAACCAGTACTCCTTCTACTAG

Gene 802. >OTTHUMT00007006894 cDNA sequence

CGGCTGGAGCGCATCTGGTCTTCCGCGCGGAAAGCGCTGCTTTTGCCTGGCCGCCCTAGC
CGCTGGCTCATCAAGTGGCCTTCCGCGCTCTCTTGCCTCCCAACCAGAGCGCTGGCCAC
CTCGCCGCCAGCTCACGCCGCGCCCGCGCTCCAGGCTCCGGGTTTTCTTAAATGTTTT
CTTGGAGCCTTAAAGATGGAGATGACAGAAATGACTGGTGTGTCTGCTGAAACGTGGGGCA
CTGGTTGTGGAAGATAATGACAGTGGAGTCCCAGTTGAAGAGACAAAAAACAGAAGCTG
TCGGAATGCAGTCTAACCAAGGTCAAGATGGGCTACAGAATGACTTTCTGTCCATCAGT
GAAGACGTGCCTCGGCCTCTGACACTGTCTAGTACTGGGAAAGGTGGAAGAATTCTGAG
GCTCAGTTGGAAGATGAGGAAGAAGAGGAGGAAGATGGACTTTAGAGGAGTGCAGGAG
GAGGAATCAGAGAGTTTTGACAGCATGATGAAGCATGGACTCACTGAGGCTGACGTAGGC
ATCACCAGTTTTGTGAGTTCTCATCAAGGGTTCTCGGAATCTTAAAGAAAGATACTCC
GACTTCGTTGTTTATGAAATAGGAAAAGATGGACGGATCAGCCATTTGAATGACTTGTCC
ATTCCAGTGGATGAGGAGGACCCCTCAGAAGACATATTTACAGTTTTGACAGCTGAAGAA
AAGCAGCGATTGGAAGAGCTCCAGCTGTTCAAAAATAAGGAAACAGTGTGCCATTGAG
GTTATCGAGGACACCAAAGAGAAAAGAACCATCATCCATCAGGCTATCAAATCTCTGTTT
CCAGGATTAGAGACAAAAACAGAGGATAGGGAGGGGAAGAAATACATTGTAGCCTACCAC
GCAGCTGGGAAAAAGGCTTTGGCAAATCCAAGAAAAATTCTTGGCCAAAATCTAGGGGA
AGTTACTGCCACTTCGTACTATATAAGGAAAAACAAAGACACCATGGATGCTATTAATGTA
CTCTCCAAATACTTAAGAGTCAAGCCAAATATATTCTCTACATGGGAACCAAAGATAAA
AGGGCTATAACAGTTCAAGAAATTGCTGTTCTCAAAATAACTGCACAAAGACTTGCCAC
CTGAATAAGTGCTTGATGAACTTTAAGCTAGGGAATTTAGCTATCAAAAAACCCACTG
AAATTGGGAGAGCTTCAAGGAAACCACTTCACTGTTGTTCTCAGAAATATAACAGGAACT
GATGACCAAGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGATTTATTAATACTAT
GGAATGCAAAGATTTGGAACCAAGCTGTCCCTACGTATCAGGTTGGAAGAGCTATACTA
CAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCTCTGGAGCTGAAAAG
GGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACCCAACTGCTGCCCTC
AGAAAACTACCTGTCAAAGGTGTGTGGAAGGGCAGCTGCTTCGAGGACTTTCAAAATAT
GGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATAATCGCTTAATGTAT
ATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGAGGATAGAAGACTAT
GGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGAGCCACAGCCACCTATATTGAG
GAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCCCTTGCCCTGGTTTTGAT
GTTATCTACCCAAAGCATAAAATTCAAGAAGCCTACAGGGAAATGCTCACAGCTGACAAT
CTTGATATTGACAACATGAGACACAAAATTGAGATTATTCTTGTGAGGGGCTACCGA
AAGATCATTATTCTGCTCCTCAGAATGTTAGCTGGGAAGTCGTTGCATATGATGATCCCAA
ATTCCACTTTTCAACACAGATGTGGACAACCTAGAAGGGAAGACACCACAGTTTTTTGCT
TCTGAAGGCAAATACAGGGCTCTGAAAATGGATTTTTCTCTACCCCTTCTACTTACGCC
ACCATGGCCATTGAGAAAGTGCTAAAAATGGATACCAAGTATCAAGAACAGACGCAGCTG
AATACAACCTGGCTTCGCTGAGCAGTACCTTGTCCACAGATTAGAAAACGTACACAAGTG
TTTGCTTCCTGGCTCCCTGTGCATTTTTGTCTTAGTTTCAAGTCTATATATGGATTTCAA
TCTTTGTAATAAAAATTATTTGTATTTTTAAG

Gene 803. >OTTHUMT00007007841 cDNA sequence

GCCAAGATTGTGCCATTGCACTCCAGCTTGGGTGACAGAGCAAGACTCTGTCTCAAAAA
AAAAAAAAAAAAACCGGAAAAAGCAACAAGAAGGAAGAGCAATGGCGCACTGGATCGC
AAAGTGCCAGTCCGGAGGCGTTTCTGGGCAAACCTGGTCCTCTGGATCGACGCCGCC
AAATTACACTGCTCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGAAAAGC
AGGGAGGTTATGAGGCTTAATAAAGAAGGTAAGTGGAGCTACTGGCATT

Gene 804. >OTTHUMT00007007842 cDNA sequence

FIGURE 1 (CONT'D)

ATGTCTTCCCCACTGCAGAGAGCTGCGGGAGGTACCAAGAGGGCCTTGTCTGCATCTTCT
AGTTCCTCTGCCAGTCTACCCCTTCGATGACAGGGACTCAAACCATCCCTCAGAGGGTAAG
AATACTGACTCTTTATTAGCTGATGAAGGCAATGACTTTGAAGACAGCTTGAATCACAGT
GTGAAGAAGAAAGCAGCAAAACGACCACCAAAAGCAACACCGGTGAATGGCAAACATCCA
GAGAAAGGGTCCCGAGTGGTACATCGTCATAGCCGAAACAGTCAGAGCCACCAGCCAAT
GATCTTTTCAATGCTGTGAAAGCTGCCAAAAGTGACATGCAG

Gene 805. >OTTHUMT00007006130 cDNA sequence

ATTAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGATTACCTCGGTGCCGATCAGC
GGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGGGATA
TTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAG
ATGACATTACAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACA
CTGGCCTGGCCCCACCAGCACTCTGGGATTTGGCTGCAGATAAGCAGACACTCCAGAGTG
AACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAATGCTGATTCCGAGGACCCAA
AATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAGGTGG
CACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTC
ACATTCCATTGCCTCCTAAGATTGACCCAAACAGTTACCATGATGCAGGTGGAAGAGAAAC
CTGATGTCACATACAGTGATGTTGGTGGCTGTAAGGAACAGATTGAGAAACTGCGAGAAG
TAGTTGAAACCCATTACTTTCATCCAGAGAGGTTTGTGAACCTTGGCATTGAGCCTCCCA
AGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCAGTTG
CTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGTACAGAAATACG
TCGGTGAGGGGGCTCGAATGGTTTCGTGAACTCTTTGAAATGGCCAGAACAAAAAAGCCT
GCCTTATCTTCTTTGATGAAATTGATGCTATTGGAGGGGCTCGTTTTGATGATGGTGCTG
GAGGTGACAATGAAGTGCAGAGAACAAATGTTGAACTGATCAATCAGCTTGATGGTTTTG
ATCCTAGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGATCCAG
CACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGG
GTCGGACCCACATATTTAAGATTACAGCTCGTTCAATGAGTGTTGAAAGAGATATCAGAT
TTGAACTGTTAGCACGACTGTGTCCAAATAGCACTGGTGCTGAGATTAGAAGCGTCTGCA
CAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATTGCTACCGAGAAGGATTTCT
TGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTGAGTGCTACTCCTCGTTACA
TGACATACAACCTGAACCCTGAAGGCTTTCAAGTGAAAACTTTAAATTGGAATCCTAACCT
TATATAGACTTGTTAATAACCAATTCATAAACAAATAAATGGCTTCAAATTTGTATGCTT
TTTTCCATATCTCTTCTTGTAATATAATAAAAGGTGATTTCTAATGTTA

Gene 806. >OTTHUMT00007007872 cDNA sequence

GCAAAGAGCTTGTGGAGTCTGGCAGGAAGAGCAACGAAGGTGAAGGTGAAGACATTGAGC
TGGAATCCGGACAACATATGTCCGCAAAACCAAGTTGGACTTACAGATTATTCCAAGAAAC
TGTGATCCTACCTTACATCCTTTTGGAGTCTGCAAGAATGTGTAAGAGTTTTAAATGCT
ACCAAACCTGGAAGGAGTATTTGCAAAACCATGCCTGGCTTGGCTGGATGGTCACGAGATG
GAGTGAGTTGCTTGGCAAAGCATCCAAAGATCCTGGCTACTCTCCTTTCTAGGGGATGTG
ATGGAGCAGTTAGAATTTGGAACCTGACTCAGCTGAAATGTATCCGTATAATACAAGCAC
ATGAAGGTTTTGTACAGGGAATACGTGCTCACTTTTGTGGGACTTCTTTTTTCACTGTTG
GTGATGACAAAACCTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTACGGAGAGGAGGAAG
GGCCATTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAG
AAGCTGTTTTTGGCACATGTGGACAGCAAGTAGACATTTGGGATGAACAAATAACTAATC
CTATAAGTTCAATGACCTGGAGATTTGACAGTATAAGTAGTGGTAAATTTAATGCAATTG
AGACATTTATCTTGGGAAGTTGTGCTTCCGACAGGACTACAGTACTGTATGATATGAGGC
AAGCTACTCCTCTGAAAAAGGTTATCTTAGATATGAGAACAAATACAGTCTGTTGAAACC
CTATGGAAGCTTTTCATTTTATGGCAGCAAATGATGATTATACTTATTTACTTTTGATA
TGCGTGCACTCATGTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTA
CTCTCCCACTGGGAAAGAGTTTGTGTCTGCTAGTTTCAATAAATCTATTTGAATCTTTCC
TGTAATAAAAGTCAAAGCAGGGAGGTATATCACACAAAGTGAAAGCAACATGTTATGTG
TGTAATAATGGACTTCTGACAGCAAGTATATTATGTATGGATCTGATGAAATGAACAGTTA
CCTATGGAAAGCTAATGCTTCTGCAAAATTTGGTATGCTTACATCACAAGAAAAAGCAGC
CAAGTATTATAACCAGAACTGAAGGAGAAATTTAGCGTCATCCTCATATACAACCGAT
AGCTCGTCATTGACATCTACCAAATCTGTCTACAGCCCAATTGAGGAACAGTGCATCAT

FIGURE 1 (CONT'D)

GAAAGAAGCTTGTGATGAGAGGAAGTGAATCACGTTAAACACAGCAAGCCTGGATCTGT
GCCAATTGTGTCAGAGAAGAAGAAACACATAGTGGCAGTTGTAAAA

Gene 807. >OTTHUMT00007007874 cDNA sequence

GCCTTTGGTTTGCATACAGAGTCTGCCCTAAATTCTCCAAGAATTGGAAGTCCACTGCGT
CCAAAGAAATATACTGAAACAAATAATCTTCAGGCAATGCCTAGAGATGTGTCTACCAGT
TTCTCTGACTTGGACTAGAGCCTTGGATAAAAAGTAAAAAAGAGACATTGTCCATTTCCAG
TGAAATTGAAGGACTCAACACCAGTATCTGATGATGTATCAAGTCAACTATATCCTCCAG
AAGAACAGGAAGAAGCTTGATTTTTTATTTGATGAACAGACGCAACAAATAGAAGAAAAAG
AAACACATTTACTGATTGGTCTCGTAATGATTGAGATTATGAAATTGATGAGCTGAATTT
CAACAAGATGTTGATT

Gene 808. >OTTHUMT00007007875 cDNA sequence

GAGGGAAGGAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGG
AATGATGGAAGCAGAGGCTGGAATGAGGGAAGCAGAGGCTGGAATGAGGGAAGCAGAGAT
TGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGAAGAGGTTGGAATGATGGAAGCAGA
GGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGC
GGAAGTTGGACTGATGGAAGCAGAGGTTGTAATGATGGAAGCAGAGGTTGGACTGATGGA
AGCAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGATAGAAGCAGAGGTTGGAATGAG
GTAAGGAGAGGTTGGAATGAGGGAAGGAGAGGTTGGAATTGTGGAAGCAGAGGTTGGAAT
GGTAGAAGCAGAGGTTGGAATGGTGGAGGCAGAGGTTGGAATGATGGAGGCAGAGGTTGG
AATGATGGAGGCAGAGGTTGGAATGATGGAGGCAGATGTTGG

Gene 809. >OTTHUMT00007007876 cDNA sequence

GAGGAGAAGGTGGTGTACTCGCGGTGCGCAACTGTGCTGGCTGACAGCACCAAGGCGCTG
GGCGACGCCTTCAAGCTCTTCATGCCCCGACGACGAGTTTCATGAGCTCGGACGCGGAG
CTCTGGAGCTTCTCTGACGCTCAAGCACCAGTTCTCCCCGCACATCCTGCGCAGCAAG
GACGTCTACGGCTACTCCTCCTGCGGGGCCCTGGTACCCGACCCCCCGGGGCCCTTACA
GCCCCGCGGCCAGGCGCGCGGCCGGTTCCGCGCGCAGCGGCC

Gene 810. >OTTHUMT00007006155 cDNA sequence

CGCGCGGCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAAGCCGAGTTCAACATC
CTCCTGGCCACCGACTCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGC
AAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAGGAAG
GTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAA
GGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTTC
CAAGATGATGTCTTTAATGAAAAGGGATGGAACCTACATTCTTGAGAAGTATGATGGGCAT
CTTCCAATAGAAAATAAAGCTGTTTCTGAGGGCTTTGTCTATCCCAGAGGAAATGTTCTC
TTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGACTATT
CTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATA
TTGGCCAAATATTTGTTAGAAACTTCTGGTAACCTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCAC
TTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGCTCTAATTAAAAAATATTAT
GGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAAACACAGTACCATAACA
GCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAAATATTGTAACACAGTTTTTCATCA
GTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTACACAGGCACCACTAATAATCAGA
CCTGATTCTGGAAACCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAG
TTTCCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGTTATT
CAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAA
ATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTTCCTTCAAGTGTAGCTATGTTGTAACCTAATGGCCTTGGGATT
AACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTCCAAAAGGGCCGATTATCT
TTACATAGGACGCCAGCAGGGAATTTTGTTACTGGAGGAAGGAAAAGGAGACCTTGAG
GAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGAT
GTGTGGGGTTTGTGTTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATA

FIGURE 1 (CONT'D)

CTGCCCTTTTCATTTTTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATGCATT
TAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGT
CATTCAATCTGGTATTGATCTTTTACAAAATAACAGAACTGAGAAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTA
ACTTGATTTTTTGTACAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAAC
AGTCTTTCCAACCTTTTCATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGAAAAT
AAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTT
TGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCTATAGAATTACTAACCTTA
CTGCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTG
GAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGTTGATTGTACCAGTGAAAT
GCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTCTAAT
ATGCACCTCAAGATTTTAAGGAGATAATGTTTTTATAGAGAGAATTTCTGCTTCCACTATAG
AATATATACATAAATGTAAAATACTTACAAAAGTGG

Gene 811. >OTTHUMT00007007104 cDNA sequence

ATGGAGGTTATGATCTATGTTGCCATCATGTTTCATTTCCCAGGATAGAATCCTAAAAGAA
TTACTGGGTGAACAGGAAGTTTGTGTGTATGTTACAGCCCGAAGTGTGCCTCTTGGGGAC
AAATCACATATTTCAGTGTTTTACATTCATAAAGGATATATATTTCTGAAGAAAGTTGTC
AATCACAGCAAGACCTTCACCACTTCTCTTGAGAATGTTGGGTACACATGACAAAGGGC
ATTACTTTTCTCAACCTTTATTATGTGGCTGTTTACTTACCTGGTCATTTCTTCCACCTA
CTTAATGTTCAACATCCAGACCTGATCTGCCACAATCTCTTCTGACAAATAATGAAATG
ATTGATATGCTACCTCATTGCCCTTTACAGTCATTGTGAGGGTCCCTGGTATTGGATTGT
TGTTCTGGAAAGCTCTATAGAGCACTGCTCAGCCAGTCGTCTTTATTACAGCTTCTGCAG
AACACTTGCTTAGACTGTGAGAAGATGGCTGCGTTGCACTGCGCGCTCTACTGCGGTCAA
GGTGCGCAGTTCTTGAAGGCCAGGAAATTCCTGGAATAACTCTTGTGACAGAAGACATT
GCATTGCCTCTTATGAAGGTGCTCAGCTTTAAGGGCTACTGGGAAAACTGAACTCCAAC
CTAGAATATGTTAAGTACGCCAAGCCACACTTCCACTATAACAACAGTGTGGTCAGGAGA
GAGTGGCACAACCTGATCTCTGAAGAGAAAAACAGGAAAAAGAAGGTCTGCGGCATACGTG
AGGAATATTCTTGATAATGCAGTAGCCAAGATTAACACCCCTCCTGCAGGAGGAAGACAG
CCACCAGCGGCTGCTCATGGGGCTGAGGACACTGCAATTTGGAGAAATAGTCGTGGCAGT
GCTGCTGAATTTGCAGTTTTTTCACATCATGACCAGGATTCTGGAAGCTACAAACAGTTTG
TTTTTACCTCTGCCTCCTGAAACTTTATACCCATTGAACAGCAATTACTTATCCCCTACT
CCCCGGTTCTTGGCAAGCACTGTTCTACCTTCTGTGTCTATGAGTTTGACTACTTTAGAT
ACTGCAGACTGCAAGGTGTATGGGAGCAGCAGTTGTGCCTGTTTTGCTCATTTTTATACT
CTTAGCCCCCTTGCCATTTTATACTCTGCACACCATCCTCGGGGTCCAGTGTCTCCCTTG
CATAACCTGCTGCATTGCATTGACAGTGGAGTGTTGCTTCTCACTGAAACAGCTGTCATA
AGGCTCATGAAACTGGATAATACAGAGAAAAATGAAAACTGAAATTCAGTATCATTGTG
CGGCTTCCCTCCGCTTATTGGGCAGAAGATTTGTAGACTTTGGGATCATCCTATGAGTTCT
AACATCATTTTCGCGGAACCAAGTACGCGCACTGCTTCAGAACTATAAGAAACAGCCTCGG
AATTCTATGATTAAACAAGTCATCGTTCAAGTGTAGAATTTCTGCCTCTGAACTACTTCATT
GAAATTCAGACAGATATAGAGTCCTCCAATCAACTGTATCCTTTTGAAGGACATGACAAT
GTGGATGCAGAATTTGTAGAGGAAGCAGCTCTGAAACACACCGCGATGCTTTTAGGCTTA
TGA

Gene 812. >OTTHUMT00007007105 cDNA sequence

ATGCCCGGCCATGACAAACATCTTAATAACTATGCTTTATGTTTTAGAAAACGATTATGAG
AGCTTACATGTATTAAATGTTGAAAGAAATGGAAATATTATTTATACCTATAAGGATGAT
AAGGGAAATGTCGTCTTTGGATTATATGATTGTCAAACCAGACAAAATGAGGACTTCCCT
GGTAGTGACATAAAGAGTGAACATGACCTAAACTGGTTGGATACAAGAGAATACTTTGCT
GCAAGTTTAGTTCACTACTAAAGAAGGAAAAAGGAACGAACTTCAACCATCAAAGTGC
TTGACTTTGTTGGTTGAAATCCACCCTGTTAACAATGTGAAGGTTCTAAAGGCTGTGGAT
AGCTATATTTGGGTTCACTTTCTTACCCACATATTGAAAGTCATCCTCTTCCAGAGAAC
CATCTGTTACTGATTTCAGAAGAGAAAAATTGAACAATTTCGTATCCATGTCGCCCCAAGAA
GATGGAAATAGAGTGGTGATTAAAAATTCTGGCCATCTCCAAGAGACAGAATAGCTGAG
GATTTGTTTTGGGCTCAGTGGGATATGTGAGAACAGAGATTATATTACATTGACCTGAAG
AAATCAAGGAGTATCTTAAATGTATCCAGTTTTATGCTGATGAGAGCTATAACTTAATG

FIGURE 1 (CONT'D)

TTTGAAGTACCCTTGGACATATCATTAAAGCAACTCAGGATTTCTTGTCAACTTTGGATGT
GATTATCATCAATACCGAGATAAAATTTTCAAACACCTGACTCTGTGTGTTTTTACCAAC
CATAACAATTTCTCGTGACCATTACTAG

Gene 813. >OTTHUMT00007007106 cDNA sequence

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATG
GCTGGCAATCTTACTGGGATTACAGAACAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTC
CTCTCCCCGCGCCGCCCGCCCTCCGCCGAGCCCGCGCCGGGGGTGGGGGCCGCCGAGC
GCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCGCGCCTCCCTCCCCGC
CCTCGCCGCGCCGCCGTCTCGCCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCCGGGGCGCCGCT
GGCAGGAGCGCTTGGGGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGAC
GTCCCCACCAACGGCTGCGGACCCGACCGCTGGAACCTCCGCGTTCAACCGCAAAGACGAG
ATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCGCTGTCAAACCTGAAC
GCCGAGGTGGCCTGTGTGCGCGTGACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTTCTGAATGCCCCGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGA
GGGCCCCCGTGAAGGATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGCGAGGGT
GGAGGCCGTAGCCTCCCTCGGTCTCCCTGGAACATGGCTCAGATGTGTACCTTCTGCGG
AAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTGGGAAGGGCCAGTGTG
GTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATC
CTGGAACACAGCCACCGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGG
GACTCGAAGGCCCTGGTGGAGCTGAACGGTGTCTCCCTGATTCCCAAGGGGTACGGGAC
TGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTGCCCCCAACCGCCACC
TCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCCAGCGACCTGGGCCTGAGTCGGCCCC
ATGCCAGAGCCCAAGGCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCC
ACTGGGCCTGGTGGGCCTCTCATCCAGAAGCTCCATGCCTCCAAGCGCATTCTCTTCTCC
ATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAAACCGAGGACATCAAC
ACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATC
GTGGGCATCCCGGACAAGATCCCCTTCAAGCGCCCCCTGCACTTATGGAGTCCCCAAGCTG
AAGCGGATCCTGGAGGAGCGCCATAGTATCCACTTCATCATTAAAGAGGATGTTTGATGAG
CGAATTTTTCAGGGAAACAAGTTTACCAAAGACACCACGAAGCTGGAGCCAGCCAGCCCG
CCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGC
GGGCTGAGGCCGATCAAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCA
GACCCCTCGCCAACCTCTGAGGAAATGACAGACTCGATGCCTGGGCACCTGCCATCGGAG
GATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGTGAGGACGCGCGGCC
GAGGAGAGGCCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTG
CCGTACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGC
ATCTCCCTCCGACAGGCCCAACTGCTTCGGGATCGCCAAGCTCCGGAAGATTCTGGAGGCC
AGCAACAGCATCCAGTTTGTGTCATCAAGAGGCCCGAGCTGCTCACTGAGGGAGTCAAAGAG
CCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAA
GAAAATTATGACGCGAGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTG
CAGGACCTTTTCAATAAGAAATACGGGGAAGCCTTGGGCATCAAGTACCCGGTCCAGGTG
CCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAGGGGCTGCCCCCAGGA
ATCCCGTTCGAAAGCCCTGTACCTTCGGCTCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACAGGCCTTTCCAAGGACTCATCCCAAAGCCTGAT
GAAGATGACGCCAACAGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTC
TTCAACGAGAAATACGGTGAGGCCCTGGGCCTGAACCGGCCGGTGTGCTGGTCCCTTATAAA
CTAATCCGGGACAGCCAGACGCGGTGGAGGTACGGGTCTGCCTGATGACATCCCCTTC
CGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT

FIGURE 1 (CONT'D)

GTCCGCATGGTCATCATTAAACCAGCTCCAACCCCTTTGCAGAAATCTGCAATGATGCCAAG
GTGCCAGCCAAAGACAGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAAT
TCCGTCTCCTCTTCTCCTCGTCTTCTCCTCGTCTCTAACC CGGATT CAGTGGCA
TCGGCCAACCAGATCTCACTCGTGCAATGGCCAATGTACATGGTGGACTATGCCGGCCTG
AACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATT CGGATATGTATCGATG
CCTTTTAGTTTTTCCAATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTTAAATA
AGTAAAAAA

Gene 814. >OTTHUMT00007007119 cDNA sequence

GTGGCGACGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGCGGGAGCATGAACGCCC
CTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGATCACCATTAAACAAGGACA
CCAAGGTACCCAATGCCTGTTTATTACCATGAACAAAGAAGACCACACACTGGGAAACA
TCATTAAATCACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGT CAGTTTCTGAGG
CCTCCCCAGCCACGCTTCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTAT
GTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCTGTCCACCTTCACGCTG
GAGCAGCCTCTAGGCCAGTTCAGCAGCCACAACATCTCTGA

Gene 815. >OTTHUMT00007006171 cDNA sequence

GGAAGGCTGATAACCATCATTTTTACTCGTTACTTCCATTTTCTTCTACCTCAGTTTTAAA
GATGTGATAATATGTGGTCAAGTTAATCATGCCTGGATGTTGATGACACAACCTAAACTCA
CTGTGGAATGCTATTGATTTTTCTCAGTGAAAATGTGATTCCAGATAAATATATAGTG
TCTACTTTGCAAAGGTGGCGTTTAAATGTGCTGCGTTTGAATTTTCTGGTTGTCTTCTC
CGACCCAAAACCTTTCAGATCTGT CAGCCACTGTAGGAACTTGCAAGAGTTGAATGTCTCT
GACTGCCCAACATTCACAGATGAATCAATGAGACACATTTCTGAGGGCTGCCCGGGGGTC
CTGTGTCTCAATCTGTCTAACACAACCTATCACCAACAGGACGATGCGACTCCTGCCGAGG
CACTTCCACAACCTTACAGAATCTTAGTTTGGCTTATTGCAGACGGTTTACAGACAAAGGC
TTACAGTACCTGAACTTGGGGAATGGATGCCACAAGCTCATCTATCTGGACCTCTCTGGC
TGCACCCAGATTT CAGTCCAAGGCTTCAGGTACATTGCAAACAGCTGCACTGGAATTATG
CATCTTACCATTAAATGACATGCCAACTCTGACGGACAACCTGTGTAAAAGCTTTAGTTGAA
AAATGCTCTCGTATTACATCGCTGGTTTTCACTGGTGCACCGCATATCTCCGATTGTACT
TTCAGAGCTCTTTCTGCTTGTAAACTCAGAAAGATCCGATTTGAAGGAAATAAAAGGGTT
ACTGATGCATCCTTCAAATTTATAGACAAGAATTATCCAAATCTCAGTCACATTTATATG
GCTGACTGCAAGGGAATAACAGACAGCAGCCTCAGATCCCTTTACCTTTGAAGCAACTG
ACTGTGTTGAATTTGGCAAATTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTT
GATGGTCTCTGCAAGCATGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGT
GATGCCTCTGTTATGAAACTATCTGAGCGCTGCCCTAATTTAAACTACTTGAGTTTACGA
AATTGTGAACATTTGACTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGGTA
TCAATAGATCTCTCTGGAACAGACATCTCTAATGAGGGTTTGAATGTGCTTTCCAGACAT
AAAAAATTGAAGGAACCTTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATT CAG
GCATTCTGCAAAGCTCACTGATCTTGGAACATTTGGATGTCTCTTATTGCTCCCAGCTG
TCAGATATGATTATCAAAGCACTGGCCATTTACTGCATTAACCTCACATCTCTCAGCATT
GCTGGCTGTCCAAAGATTACTGACTCAGCAATGGAGATGTTATCGGCAAAATGCCATTAC
CTGCACATTTTGGATATCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTT
CAGATAGGCTGCAAACAACCTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAG
AAGGCAGCTCAAAGAATGTCATCTAAAGTT CAGCAGCAGGAATACAACACTAATGACCCT
CCACGTTGGTTTGGCTATGATAGGGAAGGAAACCTGTTACAGAGCTTGACAACATAACA
TCATCTAAAGGAGCCTTAGAATTAACAGTGAAAAAGTCAACATACAGCAGTGAAGACCAA
GCAGCGTGACCTTCAGCCTCAAGCAGGAAGAACAAAAAATCAAGAACTTGGCAAGTTTTT
TCCATTTGTTGCAAGTATGTTTACTAGCTGAATCTCAATAACAATGTAAACAAGCAA

Gene 816. >OTTHUMT00007006177 cDNA sequence

CGTGGGCCGCCAGACTCGGGAGAGGCTCCGTCTTGTGCAAGGGTCTGTGGGCTGGCTGC
ACTGGCCTCTGCGGTGGTGCCTGCCAGAATGCCCCACTTGGAACCGTGGTGCTTTGTGCG
CGAGTCTCAAGTGTCCATCTTGCACTCCTTGTTTGGAGAGAGACATCATTT CAGCTTTCC
ATCCATTTTATTTATGGACATACTGCTAGTGGAAGACCTATGTAAACACAAACGTTGTT
GAAAACCTTTAGAGCTCCCATGTGTTTGTGAATTGTGTTGAATGCTTTACATTGAGGCT

FIGURE 1 (CONT'D)

GCTTTTGGAAACAAATTTTAAACAAATTGAATCATCTTAGTTCTTCAGAGGATGGATGTTTC
TACTGAAATAACCTGTGAAACATTTAATGACTTTGTTTCGCTTGTTTAAACAAGTAACCAC
AGCTGAAAATCTTAAAGATCAGACTGTATATATTGTTCTAGATAAAGCAGAGTATCTAAG
AGATATGGAAGCAAATCTTTTGCTGGATTTCTTAGATTACAAGAATTGGCTGACAGAAA
TGTGACTGTTCTCTTTCTCAGTGAAATTGTTTGGGAAAAGTTTCGTCAAATACTGGATG
CTTTGAGCCGTTTGTCTTATATTTCCCTGATTACAGCATAGGCAACCTTCAAAGATCCT
GTCCCATGATCATCCTCCAGAGTATTCAGCTGATTTCTATGCTGCCTACATTAACATTCT
TCTTGGAGTTTTCTACACTGTTTGTGAGATTTGAAAGAGCTCAGACATCTGGCAGTACT
TAATTTTCTAAATATTGTGAACCCGTGGTTAAAGGAGAAGCAAGTGAACGTGATACTCG
CAAAGTGTGGAGAAATATTGAACCTCATTTGAAGAAAGCTATGCAGACTGTTTATCTCAG
GGAAATATCAAGTTCCAGTGGGAAAAGCTACAGAAAGATGACACAGATCCGGGGCAACT
GAAAGGCCTCTCAGCGCATACTCATGTGGAACCTTCATATTACTCTAAGTTCAATCTAAT
TGCTGCATACCTTGCTTCATACAATCCAGCAAGAACTGACAAGAGGTTTTTTCTTAAGCA
TCATGGAAAAATCAAGAAAACCAACTTTCTAAAAAACACGAAAAGACAAGCAATCATCT
CCTTGGGCCAAAACCATTTCCACTAGACAGATTATTAGCAATATTATATAGTATCGTGGA
CAGCAGAGTTGCTCCAACAGCAAATATTTTTTCCAGATTACCTCTCTAGTGACCCTTCA
GCTGTTAACCTGGTTGGCCATGACGATCAGCTTGATGGACCAAATACAAATGCACAGT
GTCTCTAGACTTCATCAGAGCTATTGCAAGGACGGTGAACCTTGACATAATAAAATACTT
GTATGATTTCTTGTGAAAACAAGCTTCAAAGCCATATGGACACTGTGACAATGACTAAGC
CAAGCTGTGTTTCATCCAGCTACTTAGCTGGCCAAGGAGAGGAGTTCTTTGGCTCTATTGG
ATTTGTCCAAACAGGTGCTGGCCCAGCATGGAATCTGATGAAAATATTCTGATTGGTCTG
GGTGGATGTGAGCAGAAGACTATTTACCAGGGACCCTGGAGTATTTGGAAGCAACGTGTT
AATTATAAACAGCAGGGTTTTGAGCACAATCTGTTCTACTCTTAATGATGTTATCTTAACA
CTGAAATTGCCTGAAACCCATTTACTTAGGACTACATTTTGTCTGTGAACTATCCCCTG
CGCTTTGAACGTGCCAGCAGCCCTTGTTTATATGCCATTCTTTTCACTTCCTCTCCACA
GGAGCCTCTGCAGTCGCTTGCCAAAGCAGATTTTCTAAGGCCACTGTTTTAAAGATCA
TAGTTGCAAAATATAATAAATACAAGTTCTTTTTAAATCC

Gene 817. >OTTHUMT00007007126 cDNA sequence

ATGGGGCGGGGCTCTGGGAGGCGTGCCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGA
AACTGCCGCGAGGAGGCGGAAGGAGCAGAGGACCGGCAGCCGGCGTCTGAGGCGGGGCGCG
GGAACGACGGCGGCCATGGCGGCCTCGGGGCCCCGGGTGTCTGAGCTGGTGCTTGTGTCCC
GAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTGGTTTTCCGGGCCTCGC
CTGTTTCTGCTGCAGCAGCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCC
CTGCTCTGCGGCGCTATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAACCCTGGGC
ACCGTCCGCCACTGCTTCTTCAACGCTGATCTTCCGCCATCTTCTCCGCTATCATCTTCTG
TCATTGAGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAGGATGCCAGAGGTTTC
ACCCAGTGGCCTTTGCCATGCTGGGAGTCAACACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTTTGGCATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCG
TGGCTCATTCCCCAGACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCC
TGTATCCACCTACTGCTATTCCATCGACCTCTCAGAGCGAGTGGCACTGAAGCTCGATCA
GACCTTCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAGTACGTCTCAGGGTCTTC
AGCCGAGAGGAGGGCAGCCAGAGCCGAAACTGAACCCGGTGCCTGGCTCCTACCCAC
ACAGAGCTGCCACCCTCACTGTCCCCAAGCCACCCTGTGTCCAGACGCAGCACGCCAG
TGGTCAGAAGCTGGCCTCCTGGCCCTCCTGCACCCCCGGGCACATGCCACCTTGCCTCC
GTACCAGCCTGCCTCCGGCCTGTGCTATGTGCAGAACCACTTTGGTCCAAACCCACCTC
CTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATCCAGCCCCCAGCCTGT
GAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCCAA
GGAGTCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCC
TTCTGAAGGTCTCCCTAAGAGTCTCCTGACAAAAGTTACTTATTGAACACCTCTATGTG
CCAGGCTCTGTGTTGGGTACTTTGATCAATGCCCCGTGTTTCAGTCTCATCTGTACTCACG
GCAGCCCTGTGGAGTACGGTGTACTGGCCCAGCTTACAGATGCAGAAAGCGAGACGTTCT
GCCATCAGATAAAGTCACGTGGCTCTTTAGTAACACGGACAAGGCTCCTCGCCAAGGAAC
TCGTGGCAGAAGAGGGCAGCAGTTGGCAGTAGCTGCCGATGTCTGTCCCAGCTCCACCA

FIGURE 1 (CONT'D)

TTCTCCCTGTGGCTGTGCCGTGCTCGTGGTTTCAGTGTCCGTGTGTCCATGTGTCTGCC
CTTCAGGAGCTCGCAGCTGGTGTGCTTGGCGGTCCCAGGCCTGTGTAGTGTCTCTCCCCT
GCTGCGGGCGCCCCACCCCGATTCTCTCCCCAGAAGCGGTGGGATGGGCCCCATGAA
CTGCAGCAGCATGCTGAGGTGTCCATGTTGTCTGCCTTTGTATAAAGAAACAGCCTCTGA
AAAGAAAAGAAAAGACG

Gene 818. >OTTHUMT00007006180 cDNA sequence

GGAGAAGCACTACACCTAATCCTCTTACCTGCTACAGGCAATGTGGCAGAGAATTCTCCA
CCTGGGACTTCAGTGCACAAGTTTTCTGTGAAGTTATCAGCATCATTGTACCTGTGATC
CCAGGATTTCCCGAGATAGTCAACTCAAATCCCCTCACTGAAGCTTTTAGGGTGAATTGG
CTGTGAGGCACCTACTTTGAGATGGGGAAAATGACGCACAGAGAGATTAACTACCAACG
TCCTCTACCATCCCTCCAAGAAGATCCTACTCTCCAACCGAAATTGCTCACAAGAGTTAC
TCCTGCAGCCTTCCAGACATGAAAATCTCCATGGCAGAATCTGGCCCCCTCCTTGATAGC
CTTGACATTCTGGAGGATGGCGAGTCTGGGTCAACATTTCTTGTGACTCATTGTACTTT
CTGGGGGTTGTCACTGAGGATGGAACAAGTAGATTTTGAACAGGACCAACATATTT
GATTTGCAGATTTATGTGAAGGATGAGGTTGGTGTACAGACCTGCAAGTCTGACTGTC
CAGGTAACAGATGTGAACGAGCCACCTCAGTTTCAAGGCAACTTGGCAGAACATCTCCGT
GCAGACCAGCCACATTTCAATGCTCATAGTCAACGTACGTGAGGGTAGTGGCTACTGCA
TTGGCCAGGCACAGGCTTAGATCTAGCATTGGTTCCCCCTTCTGGGCACCTTCTGTGTT
GTGGTGGGCATGCAGTATTTCTGATTTCTCCCCAAAGAGCTTCAGAATGTCTGCTAAT
GGCACCTCTTCTCCACAACAGAATTGGACTTTGAAGCAGGACACAGATTCCATCTCATC
GTGGAGGTGAGGGACAGTGGAGGCCTCAAAGCCTCCACAGAGCTCCAGGTGAACATCGTG
AACCTCAACGACGAAGTCCCTCGCTTTACCCCGACACGAGTGTACACAGTCTGGAGGAA
CTGAGTCCAGGAACCATCGTGGCCAATATCACAGCGGAGGATCCTGATGATGAAGGTTTT
CCCAGCCACCTCCTCTACAGCATTACCACTGTTAGCAAATATTTATGATAAATCAGACT
GGTACAATCCAAGTGGCCCAAAGGATAGACCGAGATGCAGGTGAATTGAGACAAAATCCC
ACCATTTCCCTGGAAGTTCTAGTGAAGGACAGACCATATGGGGGTGAGGAGAATCGCATC
CAGATAACCTTCATTGTGGAAGACGTCAACGACAATCCTGCCACATGCCAAAAGTTCACC
TTCTCCAGTCTCCACCCTGCTCTGTGCTCCAAGACGCTGACCTGGATGGATACCGTATTA
GACTGTTTTTATGCTGCTGATAAAGATATACCTGTGACTGGGCGATTTACAAAAGAAAGA
GGTTTAATTGGACTTACAGTTCACATGGCTGGGGAAGCCTCACAATCATGGCAGAAGGC
AAGGAGGAGCAAGTCACATCTTACATGGATGGCAGCAGGCAAAGAGATAGAGCTTGTGTA
GGGAAACTCCTCCTTATAAAGCCATCAGATCTCATGAGACTTAGTCACTATCACGAGAAC
AACTCAGGAAAGACTTGCCCCCATGATTCCATTTCTCCTACCAGGTCCCTCCCACAACA
TGTAAGGAATTCATTAGCCCTGAAGGCCAATGTGAAATCCGTAGCTGGACTAACTGCATTT
ATTACTGAAGATAATCTAACCAAGGCTCAAGTTCCCTCTTTGGGCTCTTCTAGCGGGAGG
AACTCTCAGCCACCCTATGAACGCCAAGATGTGAGGAAGGGCAACGAAAGGGACCCCTCC
TCTGCAGTTCCAGGGGCGGAGGTCTTCAGCCTAAAGCCCAGCCTCGCGTCCCAAGGCTGC
ATAAGGGCGAACGTCTACGTTTATATCCTAACAAGCCCAGAAAATGAGTTTCTCTCATT
TTTGATAGGCCATCCTATGTATTTGATGTGTGAGAAAGAAGGCCCTTAAAGAAGTTCCAT
TTACAAGGGGCGAGCAGGCAAGGTGGCACATGGAGACACCGTAAATCCACACCTTCTGGA
AAAACAACCTCGGTGTCTCTGCAGGTTACTGTGAACATCCTTGAAGAAAATGATGAAAAG
CCAATTTGTACTCCAACTCTTATTTCTGGCCCTCCAGTGGATCTGAAAGTTGGCACA
AATATTGAGAATTTCAAGCTGACATGTACCGACCTTGATTCCAGCCCCAGATCTTTCCGT
TATTCCATTGGCCCAAACGTCAACAATCATTTTCACTTCTCTCCCAATGCTGGTTCCAAT
GTCACACGCCTGCTGCTTACATCTCGCTTTGACTATGCTGGTGGGTTTGATAAGATCTGG
GACTACAAGCTACTTGTCTACGTAACGTGATGACAACTTGATGTCTGACAGGAAGAAAGCG
GAGGCTCTTGTGAGACAGGAACAGTGACACTGAGTATTAAAGTCATTCCCCACCCAACC
ACTATCATCACCACGACCCCCAGGGAGCTGATTTCCATGGGCATGCTGCCAGTTGCTACC
TTCACAACCCCTCTCTGCTTGTTCAGAAGAGTCTTTGCAAGTCAATATCCATGA

Gene 819. >OTTHUMT00007006186 cDNA sequence

CAGCAGCCGCAGCCGCCTCGCGCCCGGTCCCGCGGTGCGAGCTCCAGCCGCCTCCTCCGC
GCAGCCGCCGCCTCAGCTGCTCGCTCTGTGGGTGGTCCCTCTCCGGCACTTGGGCTCCAG
TCGCGCCCTCCAAGCCCTTCAGGCCGCCCGAGTGTCTCCTCCTCTCTCCGGCCAGACCCA
GCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGTGGCCGAGCAGG

FIGURE 1 (CONT'D)

CGGAGCGCTACGACGACATGGCCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCAC
TGTGCAATGAGGAACGAAACCTTCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCC
GCTCTTCCTGGAGGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGA
AGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGAGGCTGTGT
GCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGT
ACGAGAGCAAAGTGTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAG
TGGCCACCGGAGAGAAAAGGGCGACGGTGGTGGAGTCCTCCGAGAAGGCCTACAGCGAAG
CCCACGAGATCAGCAAAGAGCACATGCAGCCCCACCCACCCCATCCGATTAGGCCTGGCTC
TTAACTACTCCGTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTGCCACTTGG
CCAAGACCGCGTTTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACA
AGGACTCCACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACC
AGCAGGACGACGATGGCGGCGAAGGCAACAATTAAGGCCCCAGGGGAACTGGCAGCGCAC
GCGGATGCTACTACTGCAGTCTTTATTTTTTTTCCCATGAGTTGGGGGTGGGTGGGGGAG
GGAAAGGGAGGGATGACCTTCCAGGGAGAAAACCCACGACCTGTCTGTCTTTGATCGCC
TCTTTGACATTTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGCTGGTATTG
GAATAGCAGCCTCACACTGGCGTCTGGACTGTTCTGTAGATTATGCAAGTGGAGCTGTC
TGTCTCTAATTTAACTTATTGCTAGATAATAGGGTTTTTCAGATGAAAAGAAAACTTAAAG
AGGAATGGCCCTCATTGAGTAAGTTCTGTGGTTCCAGTAAGGATTTTTATGTACATACGC
TCTCGTCTCTCGTTTTGGGTACTTTCTATCTCATCTGTCTCGGCTCTGCATGTTTTCCAG
GGTGTAGCCTACAGACATGGAACAGTGTAAATCCAGACTGACAGACTTAGAACCTGAGG
TCTCATTATCTCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACA
GTATTAACACTAAATTGCAGTTTACAGTATTTCTACATTACAGCCATATGTAACATCAAG
CCATCGATTGTGTACTTTTCTTTGCTAGTTGTTTGGGCTTTAACATCCTTATTGAGCCT
TATCCAGGTTGGTTTTGCTGTTGATCGGTCTCCTAGGCTAAATGAGAATGAAAGCGACTT
CAGGTGAGGTGGCTGTGGGATTTTTTTTTTTTTTGGTCTTCTTTCTTAACTAAATCC
ACCACAAAATTATTAATCCTCTTGAGAGAAACGTGAAACGCCCAAAAATAGAGAAAAT
TCAGGTCTGTATGTATGATCGTGTGGTATTTTCAGAGAACATCCCGCTTCTGAAGCT
GCTGCAGCTCCCTCCTCAGGGATCACACTGCCGTCACCCACTCTGCACTGGGGCGTTTTCC
TACTGCGCCTCGTGCTGGCGGACGCGAGCTGGGTGCAGAAGCTGTGGGGTCGGAGAGGCGT
TTGGAGAAGGTCTGTGGTGCAGTGTGTGAAAATTGAGGTGCTAGAAGCCTACTGGTAGAA
AAACCCAAAAGGAAGAGCTATATCCTTAACCAATTCTGTCCAATTTGGGAGCCTTGTGAG
TGTGTGAGTTTTTCTCCCCGAAGACACTCCTTCCCCAAGTAATTGTAGGAAGATAAAAA
AACTGTTACCAGATAACAAACACTGAACTCCTATTTGACCAGAACTTTTTCTCTCGAGA
TAGTTTTTTCTTTTTAATGAAAAAAGCATAGGAATTGGAGATTGGCTTGTCTCACGCAGC
CAGTGCACATTTGGAATTGACGGAAACAACGTTGCTATTTCCACCCATTTGTTTTCGGCA
GCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCCGAT
GTGCATTCTTTTTTTTTATATATATAAAGTCAGTGACGAGGAACTCCCGAGACGTGTAATG
ACACCACACTTGTTTTTCTTTGTTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAAT
TGAGGAAAAACTGACAGATGCTTTTGCTAATACCAAAATTGAGCTTACAATTAGGAACTG
AGTATGTGTAAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACGATGACCACAGACT
CAATGTGCTCTGTAAACATCGCACAGTTTACCCAGCATGACTTTCTTAGGAGGCCCCCTC
CTCACGCTAGAGTAAAAGTCCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAG
CTTTGCCGCTTTTGTGCCTCTCACAGGCGCCTAAAGTCATTGCCATGGGAGGAAGACGAT
TTGGGGGGGGAGGGGGGGGGGGCAGGGTAGGTGGGGCTTTCCCTAATTTATCTTCATGT
CCAGTGAGCAGTGTTGCGTTTTTCTTTGTAGCATTGGAATGATTTACTGGAATTACAA
AACCTATTTTTCTTTTAAATTTTCTGCTTTGGCTCTGGCTGCTTTTTAGAAATAATGCAAGA
TAAAAATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAG
CTTGAATGGTTTTTCTTTTCTTTATTTTTTAAAGAAATGCACTTGCCCTATGATACTGTCTC
TCCAGTGAAATGATTACTCCTCCATTAATCTATTGATACAATATTGTGCATGCTAGTGTT
GTATTTCTATACAGTAGCTTGAAATTGATTAACTTATACTGTAGGTGTTATGTATTCCTA
TGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAATTTAATTTTT
CCTTTTGGGGGTAAAGTTTGCTCTACCAATAGTGATTGTAACAAATTGATCTGTTTTGG
ATGTTGCTATAGTGACATGCAGTTATATATTTTTGTTTTTAAAGGGGGGGAGCAAAAGAA
ACACCAGTGTTAGCTTAATCTTAATGTCTGGTGTGTTGTGATGGTGAATTTATACTATTA

FIGURE 1 (CONT'D)

CAGTGTGGAGAACAAACAATATGTTCTCTGAATGAGCCTTTGTGCTTTTGTGTCATGTTA
TGCAGTGAACATATTTTAAAGGTCTAATCAGTGATTATTTTCCAGCTCCGTGTTTCTCTA
AGGAATTATTTTACACACGGACCATCTTTAGCAGTTTCTCAGTGATGGAATATCATGAA
TGTGAGTCATTATGTAGCTGTCGTACATTGAGCAAATAAACTTACAGATCTGA

Gene 820. >OTTHUMT00007006188 cDNA sequence

TTTTCTGGGGCCGCTCCAGCTGGTGCCGGCCACCTCCACTCCCCCTTTGCTTCTTGCTGTC
CCTAAGGTGCGATGGGGACAGGCTGGGGCCACCAGCCAGCTCCATGGACAGGGACTTTGC
CTCTGCTCACCTTCCAGCTGTGGAAAGAAAAGAAGAAACGCCTGTGTTGATTTCCATTTG
GAAGATCCTTCTCCTCCTAAACTTCCAGGGGCAGACAAAGTGATTGATCTTGATTGA
CTGTAGAAGAAGGGACAGAAAGAGCCCAGAACATTCCCCCAGATGTTCCAAGTGTGACTT
CTCCCTGGCGCCTTGATGGGAGCATCTGAAACACCTTCAACATCTAGATGCACAAGGAA
GCAGAGATGCTAATTGGTCCCCAGCTGGATGAGAAGCGCTGGGGGTGGAGGTTGGGAGAT
GGGAGTGCTGCCCCCTCCCTTCTCCCCCAAGCCCTGTCTTCTCTCTCTCTGCCACTG
GCCAGCGCCCTACAGCCCACTCCACTGCCCTTTCAAGAGCTGAGGCTGGTGGGGGGCCCC
AGCCGCTGCCGGGGCCGCTGGAAGTCATGCACGGTGGCTCCTGGGGCAGCGTCTGTGAT
GACGACTGGGACGTGGTGGACGCCAACGTAGTGTGTGCCAGCTGGGCTGTGGCCTGGCA
CTGCCCCTGCCACGGCCCCCTTGCCCTTTGGCCAAGGCCGAGGCCCCATCCTGCTGGACAAC
GTGGAGTGCCGCGGGCAGGAAGCTGCGCTGAGCGAGTGCGGCAGCCGCGGCTGGGGCGTC
CACAATTGCTTTCACTACGAGGATGTGGCTGTCTGTGTGATGAATTCTTGCCAACGCAG
CCCCCAACAAGGAAGATGTTAACCAGTAGAGCACCTCCTACGACACTGCCGAATGGAAAA
AGTGAGGGCAGCGTACGCCTGGTAGGGGGCGCGAACCTGTGTGAGGGCCGAGTGGAGATC
CTGCACAGTGGCCTGTGGGGCACCGTGTGTGACGACGACTGGGGGCTGCCGGATGCCGCT
GTGGTCTGTGCTCAGCTGGGCTGCGGGGCGGCCATGGCCGCCACCACCAACGCCTTCTTC
GGCTATGGCACCGGACACATCCTGCTGGACAACGTGCACTGCGAAGGCGGCGAGCCCCGC
CTGGCAGCCTGCCAGAGCCTGGGCTGGGGTGTGCACAACTGCGGCCACCACGAGGACGCG
GGCGCGCTCTGCGCAGGCCTGGGTCCCCCAACGCTCACAGCACTGCCATCCTCAGCCACA
AGAGAGGACTGGGCTTGGCAGACAGATCCGTCCGCTACAGGAGTTGGCCCCCAGCCTTCC
CGGGAGACAGCACTGCTCACCACCGCCCGCTGGGCCCGGGGAAGAAAAGTGGACGGCTG
CGACTGGTGGGCGGGCCCGGTCCGTGCCGCGGCGCGTGGAGGTGTTGCACGCCGGGGGC
TGGGGCACCGTGTGCGACGATGACTGGGACTTTGCGGACGCGCGCGTGGCCTGCCGCGAA
GCGGGCTGCGGGCCTGCGCTGGGGCGCTACGGGACTGGGCCACTTCGGCTACGGCCGCGGC
CCCGTGCTGCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGACTGCTTC
CACCTGGGCTGGGGCCAGCACAACTGCGGCCACCACGAGGACGCGGGAGCGCTCTGCGCA
GGCCAGAGGAGCTGGGACTGCAAGTCCAGCAGGATGGTTCTGAGACCACGCGGGTGCCC
ACTCCTCGGCCCAGGGACGGGCATCTACGTCTGGTCAATGGAGCCCACCGATGCGAGGGA
CGTGTAGAGCTCTACCTAGGGCAACGGTGGGGCACTGTCTGTGATGATGCTTGGGACCTG
CGGGCAGCCGGTGTCTGTGCCGCCAGCTGGGCTGTGGCCAGGCCCTCGCAGCCCCCTGGC
GAGGCTCACTTTGGCCCAGGCCGAGGCCCATTTCTCCTGGACAATGTCAAGTGCCGTGGG
GAAGAAAGTGCTCTGCTGCTCTGCTCTCATATCCGCTGGGATGCCCACTGTGACCAC
AGCGAGGATGCCAGTGTCTGTGCCAGCCTTCATGACCCAGCCCGCTCTGCAGACCACCT
CTTCTTCTGGGAGCTGTGACCTCCCTTCTCTCCTCCAGGAAGCCCTCCTCTTGTGATGACT
ACAGTTCACTTTGCCCCCTCCTTCCCTTGCCCTGGGAGAGAGCCTACCTAGACAGTGCACTC
CTGCTTGGGGGAGCCTGGCTGTACCCCGTCCACTTACTGCGTGACCTCAGCCTGTCTATC
GACTGTTGTGAGCCCAATTCAAGTGAAGCTCCTGTGGTTTTGCTCAGCCAAAACCAAAAC
GAGGGGAAGAGGATGATTCTAACTCTTCTGTTTGGTGGGGCTCTTTTTATAGCACCAGA
CTCTGCCTTCTTGACCTAGATCCAGGAGGCTCAGGGGCTCTTTAAATGGGGTATCTCCT
CTTCCCCCAACCCATCTTGGGATCCCCAAGAAGAGGGAAGGCAGGAGGGGCTACAGCTC
CTACCTTGGGCCCCTCAGGGGCTGCAGAGGAACCTGGGTCCCTGTCTGCCCCTGCTCCGCG
AGGGCCTGGACTAACTCAGATGGTGTCTGGCTGGACAAGGGGACTGGGGGAGGGGCCAAA
GCAGGGACAGTGGCCCCCTCCCTGCAGCTGGAACCAGCATCTCTGATTTATGCCGTCTCCA
CCACAGAGCCTCCACTTTGCAGGAGTGAAGAACCCTGGGGGCTGTAGCCACCAGTTTCAT
AGGTGCCAAGTCAATAAAGCATTGTCCCCCGTCTCTTATAACTGCA

Gene 821. >OTTHUMT00007006195 cDNA sequence

ATGAACGCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGATCACCATTAAC

FIGURE 1 (CONT'D)

AAGGACACCAAGGTACCCAAGGCCTGCTTATTACCATCAACAAAGAAGACCACACACTG
GGAAACATCATTAAACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTC
CCCCACCCCTTGGAGCACAAGATCATCATCCGAGTGACAGACCACGCCGACTACAGCCCC
CAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAG
CGCTTCCGGGTGAGGGCGGGCCTGGAGGGGCAGACGGGGTGGGCTGGACACTGGCCCGT
GTGCCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTCAGGGAGAGGCGGCG
GTGATGGAAGAACAGGGACTTCCACCACAGGCTCCAGGACATGTGGACTGA

Gene 822. >OTTHUMT00007006196 cDNA sequence

GAGAGTCGGAGCCACAGCCAGAGCCCTGCCCAGGCCGAGCCGAGCTGCAGCCCCGAGCGC
GGTGGTGCCCTCAGCCCCGTCTCTTGTCTCTCAGCCTCGATCTGCCGGAGGCGCTGG
GCAATGACCCCGGGACTCCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGAC
TCCTTGGGAAGATGGCCATGGCCCCAAGCCCTTCCCTGGTGAGGTGTACACCAGCCCCG
CGGCTGTGGCCGTGTGGGAATGGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCA
CCGTCTGCAGCTTCATCGAGCAGCAGTTTGTCCAGCAGAAGGGCCAACGTTTTGGGCTTG
GGAGCCTGGCCACAGCATCCCCCTGGGCCAGGCAGACCCCTCGCTGGCCCCCTTACATTA
TTGACCTCCCCAGCTGGACCCAGTTCCGCCAGGACACCGGCACCATGCGGGCTGTGCGGA
GACACCTGTTCCCCCAGCACTCAGCCCCCTGGCCGAGGTGTCTGTCTGGGAGTGGCTGAGCG
ACGATGGCTCCTGGACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGG
CCAGGGGCAACCAGCTCGTGGACTTGGCCCCCTGGGGTACAACCTACACTGTCAACTACA
CCACCCACACGCAGACCAACAAGACTTCCAGCTTCTGCCGAGCGTGCAGGCGCAAGCAG
GGCCGCCTTACCCGGTGACCAACCATCATCGCTCCGCCGGGCCACACAGGCGTGCCTGCT
CTTGCCACCAAGTGCCTCAGTGGCAGCAGAACTGGCCCCGTGTGAGGCCGCTACCGCCACT
CCATGACCAACCTCCCTGCATACCCCCGTCCCCCAGCACCCCCACACAGGACCGCTTCTG
TGTTTGGGACCCACCAGGCCTTTGCACCGTACAACAAACCCCTCACTCTCCGGGGCCCGGT
CTGCGCCCAGGCTGAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCC
AGCCCCCTTACCGCTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCAGGATCCT
CCACCTCCGGTGAGTCACTGCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCAGGGAGCG
TCCCTGCCACTGTGCCCATGCAGATGCCAAAGCCAGCAGAGTCCAGCAGGCGCTCGCAG
GCATGACGAGTGTCTGATGTGAGCCATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCC
AGCCCACCAGCCCTCCCGCTCCCGTCTGGCTTCCAAAAGTCACGGCTCAGTTAAGAGAT
TGAGGAAAATGTCCGTGAAAGGAGCGACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCA
TAAAAAATACACGGAAGAGCTGAAAGTGCCCCCAGATGAGGACTGCATCATCTGCATGG
AGAAGCTGTCCACAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCC
TAGCTGTGGGCCACCTCACCAAGTGACGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCA
TGTAAGTGAACGGCAATAAGGATGGAAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATG
GAGAGAAGACGGGGACCCAGCCCCAGGGAAAGATGGAGGTATTACGGTTCCAGATGTGCG
TCCCCGGCCACGAGGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCCATGGTATCC
AGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACTGCCAGAGGGTTTCCCCGCCAGT
GCTACCTTCCAGACAACGCCAGGGCCGCAAGGTCTAGAGCTCCTGAAGGTGGCCTGGA
AGAGGCGGCTCATCTTACAGTGGGCACGTCCAGCACACGGGTGAGACGGACACCGTGG
TATGGAACGAGATCCACCACAAGACAGAGATGGACCGCAACATTACGGGCCACGGCTATC
CCGACCCCAACTACCTGCAGAACGTGCTGGCTGAGCTGGCTGCCAGGGGGTGACCGAGG
ACTGCCTGGAGCAGCAGTGACCTCGCACCCAGCACGCCCGCCTCTGGTGGCCACCCCGC
TGCCCATGGCTGGCTGGGTGGCCAGGCAGGAAGTGCCAGCCCGAGAGGCTGGGAGGTT
TGTTGAGGGTGTGGGGTGTGCCCCACCTGAAGCCGGGGCTCCCCCTGCCTGCCTCTCTCT
CCTCCTCCCCTCTGGGAATTGGGCAGCCCTGGGCAGTTGTACTCATGGGGCTTAGGATG
CAGCTACCTCAGTGCAGGGCCCGTCTGTCTCTGGGGGCTGCTTCGGGGCCCGCGGTGC
TCGGGGCCTGGTGTGGGGCGAGTAGAGACTTCCCCAGCCTGGACGGGCGTGGGTTCTGGG
TCAGCTTCTTTTACCTCAATTTTGTGTTGCAATAAATGCTCTATAGCCAAA

Gene 823. >OTTHUMT00007007151 cDNA sequence

GGCGCTGGGCAGTGTGGAGGTGTTGGAGTCACTTCCCCGTCAACAGCTCCTGTGCCTGC
CAGTCGGTGCCCCCTCCCGCTCCAGCCATGCTCTCCGCCCTCGCCCGCCTGCCAGCGCTG
CTCTCCGCCGAGCTTCAGCACCTCGGCCCAGAACAAATGCTAAAGTAGCTGTGCTAGGGG
CCTCTGGAGGCATCGGGCAGCCACTTCACTTCTCCTGAAGAACAGCCCCTTGGTGAGCC

FIGURE 1 (CONT'D)

GCCTGACCCCTCTATGATATCGCGCACACACCCGGAGTGGCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAG
GTTGTGATGTGGTAGTTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACG
ACCTGTTCAACACCAATGCCACGATTGTGGCCACCCTGACCGCTGCCTGTGCCAGCACT
GCCCCGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCACCATCCCCATCACAG
CAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAG
TCAACGTCCCTGTCTATTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGT
GCACCCCCAAGGTGGACTTTCCCCAGGACCAGCTGACAGCACTCACTGGGCGGATCCAGG
AGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTGCCACCCTCTCCATGG
CGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGAAAGGAAGGTG
TTGTGGAATGTTCTTCGTTAAGTCAAGGAAACGGAATGTACCTACTTCTCCACACCGC
TGCTGCTTGGGAAAAAGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTG
AGGAGAAGATGATCTCGGATGCCATCCCCGAGCTGAAGGCCTCCATCAAGAAGGGGGAAG
ATTTTCGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGTTTCCTTAATTTATGA
AGGCATCATGTCACTGCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATC
AATAAAAGCCGTCTTTGATTTTTATTTTTCAAGGTCCCTTCTGTAAA

Gene 824. >OTTHUMT00007007156 cDNA sequence

ATGGACAGAACGGAGACTAGGTTCCGTAAGAGGGGACAGATTAAGGGAAAGATCACGACC
AGCCGTC AACCTCACCCCCAGAATGAGCAGAGTCCCCAGCGGAGCACCTCGGGGTACTCC
CTCCAGGAGGTGGTGGATGATGAAGTGTGGGATCATCACCTGGGGTAGATCCCAGCCCC
CCATGTAGGTCCCTTGGCTGGAAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAG
CCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGG
CTCAAGATGAAGCTGAAGCAACAGCGAGTGTACCCATCCTCCCTGAGCACCACAAGGAC
TTCAACAGTCAGCTTCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTGGAAA
AGGAAGAGGGAGTGGTGGGACGAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTG
CTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAG
CTGAAGCGACGGCGAGTGTGCTCGTCTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTG
CTTGATCCTGTCTATTAAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTCTGGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCCAGCCGGGCCGGCCTCCCTCCTGGCAATAC
CAACGCATTCTTTTCTTCTGGCTTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
CCCAAACAAAACATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCCTTGGTC
CGTAACCGTCGGTTCCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CAGATAGCCCTGTTCCAGAACTTTCGGTTCCAGTTCTTCTGTTCCATGAGCGGCAGGGCT
TGGGTTTCCCGGGAGGAGTTGGAGGAGAACACCGGACCCACGGGAGATGTGGATTTTTCAG
CAGGAACCTTTATTCCAATGCTAATGGCAGTCAACAGGAAGAGGAGAGGAACCATTGTG
CAGATCATCTAG

Gene 825. >OTTHUMT00007006504 cDNA sequence

ATGTCCTCCACCGTGAACAACGGGGCGGCCAGCATGCAGTCCACACCCGACGCCGGAAC
GGCTTCCCGCAGCCAGCTCCTCCTCGGGGACCTGGCCGCGGGCGGAAGAGGAGCTGCGC
GCCGCGGAGCCGGGCCTGGTGAAGCGCGCGCACCCGCGAGATCCTGGACCACGAGCGCAAG
CGGCGGGTGGAGCTCAAGTGCATGGAGCTGCAGGAGATGATGGAGGAGCAGTATTCCGAG
GAGGAGATTCCGCAGAAAGTGGGGACATTCCGGCAGATGCTGATGGAGAAGGAGGGAGTG
CTCACCAGGGAGGACCGGCCTGGGGGCCACGTGGCGGAGACCCCGCGGCTGACCGAGGGC
GCTGAGCCGGGCCTGGAGTACGCGCCCTTTGACGATGACGACGGCCAGTGGACTGTGAC
TGCCCGGCCTCCTGCTACCGCGGCCACCGCGGGTACACCAAGCATTGGTCTAGCAGCTCG
GCATCGCCCCCTCCCAAGAAAAAGAAAGAAAGAGTGTGAAGAAGCATCGCCGAGACTCTGAT
TCTGGGTCCCGGAGGAAGAGACGGCACTCTCGAAGCTCCAAGTGCAAAAGAAAAGAGAAG
AACAAAGAGAAGAAGCTGAGCCCCAAGCACCGAGACGAAGGGCGAAAGACGGGCAGCCAG
CGGTCCAGCGGAAGCCGGTGCCTTCCCCGTGGGCGGCAGCGGATGGGGGTGCGCCCGAG
CGGAACGGCGGCAGCGGCAGCGGAGCGGAGCGCACGGGGGCCGCCCGGCTCGGCGCAC
AGCCCGCCCGATCCCCGGGACTTCGGTCAACCCGCTGGCCTTCAGGGCCCTTTCGGGCA

FIGURE 1 (CONT'D)

AAAGGCAGTGACAGAGGAGCCAGTGCAGGGGCTCCTGGCCTTCAGATCCTGGAGGAAGTT
CTGGCCAAGAAGCCAGCTCGCCCTCGCCAGGGTCCGTGACAAGGCGGCGGCCGCGCA
CCACGCGCGCCCGCGCGGGGGAAGGAGAGCCCGAGCCCGCGCTCGGCGCCGTCTGTCCAA
GGTCGCGGAGGCCGCGCGGCGGGCGGGCGGGCAGGCGGCGGCGGCGGCGGTAGGCGG
CGGCGCTCGCGGTCTCTCGGCGTCCGCGCCCCCGCCAGGGGTGCGGCGCGCCCCGCGCC
GCGCCCCCGGGGCTCGTCGCGCTCGCTCAGCAGGGCCCGCTCCAGCAGCGACTCCGGC
AGCGGCCGCGGCGCCCCCGGGCCCCGAGCCCGGCTCTGAGCGAGGCCACGGCGGA
CACGGGAAAGCCAAGGAGCGGCCCCCGCGCGCGCGGCGGCCAGCACCTCTCCGTCCCCG
GGCGCGCACGGCCGGCGCGGCGGCCAGAGGGAAGAGCTCGTCGCGCAGCCCCGGCCCCG
CACCCCGCTCCTGGAGCTCCAGCCGCTCGCCCTCAAATCTCGCTCGCGCTCTGCGGAG
AAGCGGCCCCACAGCCCCAGCCGCTCGCCGTGCCCCAAGAAGCCCTCAGCGACAAGGAC
GGCGAGGGCCGCGCAAGGCACTCTGAGGCCGAGGCCACCCGCGCCCGGCGCCGCTCCCGC
AGCTACTCGCCATCCGCAAGCGGCGCGGGACTCGCAAGCTTCATGGAGCCGCGGCGC
ATCACCTGCTTGAGCAGCGACTACTCGACCCGAGCCACAGCCGAGCCCCAGCCCCGGC
CACAGCCACGGGAGCTACAGCAGTCGAGCCATGGGACCCGAGCCGGACACGCAGCCCC
TCGAGGACCCCCAGTCCAGCTACCACAGCCGAGCAGCTCTGAGAGCGGGGCTTCTGA
Gene 826. >OTTHUMT00007007168 cDNA sequence

ATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
CGACGGCGAGTGTGCTCGTGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAG
GATCCTGTATTAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTAT
CTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCGGCTTCCCCTCCTGGCAATACCAA
CGCATTCAATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
TCCAAACAAAACATCTTCCACTTCTGTATGGGAAGAACCGCTCTCGCATACCTTGCTC
CGTAAGCGTTGGTTCCAGTTAGGCCGTTCCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCCATGAACCCGAGGGCC
AGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCC
ATGAACCTGAGGGCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGTCGGTTC
CAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGGAGGAGTTGGAGGAGATC
CAGGCTTATGACCCAGAGCACTGGAACACCCGACCCAGGGGAGATGTGGATTTTTCAGCAG
GAACCTTTATTCCAATGCTAATGGCAGACACCAGGAAGGAGGAGGAACCATTTGTGCAG
ATCATCTAG

Gene 827. >OTTHUMT00007007171 cDNA sequence

CGTTGGCCGGGCCCCGGGGAGGAGGGGAATCTCCCGCCATTTTTCAATAATTTCTCCGG
TGCTGCTGAGGAGGAGTCTGTGACTGCCCGCCCGCGGGACCCGAAGCGGAGGTGCGCGGG
GGCTGCTGGGAGGCGCGGCGGTGTGCGCGGGAGCTCTGCGCCGTGGCGTTCCGCTCCATG
ACTGTGCGCGCGGCCGCGCCGGCGGTGAGGGAGCCGAGTTCGCGCCGCCCTCTCACCCCT
CCCTTCCCCCACCCACCCCGGGCGCTGGCGCTCGCTCCGGGCGCGGGGCTAGTGC
TGCGCCGCGGGGCGGCCCCAGCAGCCGCCAGTCCCCACCGCCGCGCCGCGATGGCGCC
GCTCCTGGGCGCAAGCCCTTCCCGCTGGTGAAGCCGTTGCCCGGAGAGGAGCCGCTCTT
CACCATCCCGCACACTCAGGAGGCCTTCCGCACCCGGGAAGAGTATGAAGCCCGCTTGGA
AAGGTACAGTGAGCGCATTTGGACGTGCAAGAGTACTGGAAGCAGTCAGCTAACACACAA
GGAAGCCTGGGAGGAAGAACAGGAAGTTGCTGAGCTTTTGAAGGAGGAGTTTCTGCCTG
GTATGAGAAGCTTGTCTGGAATGGTTCAACATAACACAGCCTCCTTAGAGAAGTTAGT
AGATACTGCTTGGTTGGAGATCATGACCAAATATGCTGTGGGAGAAGAGTGTGACTTCGA
GGTTGGGAAGGAGAAAATGCTCAAGGTGAAGATTGTGAAGATTCATCCTTTGGAGAAAGT
GGATGAAGAGGCCACTGAGAAGAAATCTGATGGTGCCTGTGATTCTCCATCAAGTGACAA
AGAGAACTCCAGTCAGATTGCTCAGGACCATCAGAAGAAGGAGACAGTTGTGAAAGAGGA
TGAAGGAAGGAGAGAGAGTATTAATGACAGAGCACGTAGATCGCCACGAAAACCTTCTAC
TTCATTAATAAAGGAGAAAGGAAATGGGCTCCTCCAAAATTTCTGCCTCACAAATATGA
TGTGAAACTACAAAATGAAGATAAGATCATCAGTAACGTGCCAGCAGACAGCTTGATTG
TACAGAGCGCCACCAAATAAGGAGATAGTTTCGATACTTTATACGGCATAATGCATTACG
AGCTGGTACTGGTGAAGATGCACCTTGGGTCGTAGAAGATGAATTGGTGAAGAAATACTC
TCTGCCAGCAAGTTCAGTGACTTTTTACTTGATCCATACAAGTATATGACTCTCAACCC

FIGURE 1 (CONT'D)

TTCTACTAAGAGGAAGAATACTGGATCCCCAGACAGGAAGCCCTCAAAGAAATCCAAGAC
AGACAACCTCTTCTCTTAGTTCACTACTAAATCCTAAGTTATGGTGTACGTACACTTGAA
GAAGTCATTGAGTGGCTCGCCACTCAAAGTGAAGAACTCAAAGAATTCAAATCTCCTGA
AGAACATCTAGAAGAAATGATGAAGATGATGTCGCCCAATAAGCTGCACACTAAGTTTCA
CATTCTTAAAAAAGGCCACCTGCCAAGAAAACAGGGAAGCACAGTGACAAGCCTTTGAA
GGCAAAGGGCAGAAGCAAAGGCATCCTGAATGGACAGAAATCCACAGGGAATTCAAATC
TCCCCAAAAAGGACTGAAGACTCCTAAAACCAAATGAAGCAGATGACTTTGTTGGATAT
GGCCAAAGGCACGCAGAAGATGACACGAGCCCCACGGAATTCTGGGGGTACACCTAGGAC
CTCTAGTAAACCTCATAAACATCTGCCTCCTGCAGCCCTACACCTCATTGCATACTACAA
AGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCTGTGTTATCTCCAAACAGC
TCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCAGAAGAATTGCGAAGTCTTGTTCA
AAAACGCTATGAACTTCTAGAGCACAAAAGAGGTGGGCTTCTATGTCTGAAGAACAAAG
GAAAGAATATTTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAGTTGAAGGAAAAAGCCAA
AGAACGAAGAGAGAAAGAAATGCTTGAGAGATTAGAAAAACAGAAGCGGTATGAGGACCA
AGAGTTAACTGGCAAAAACCTTCCAGCATTGAGATTGGTGGATACCCCTGAAGGGCTGCC
CAACACGCTGTTTGGGGATGTGGCCATGGTGGTGGAATTCTTGAGCTGTTATTCTGGGCT
ACTTTTACCAGATGCTCAGTATCCTATTACTGCTGTGTCCCTTATGGAAGCCTTGAGTGC
AGATAAGGGTGGCTTTTTTATACCTTAACAGGGTGTGGTGCATCCTCTTACAGACCCTCCT
ACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTGCGAATCCCTT
GACTCTGCATTCTGTTTCAGAGCTGGTGCAGCTCTGCTTGCAGATCTGATGTTGAGGA
GGAAAGCGAGGGCTCAGACACAGATGACAATAAAGATTGAGCTGCATTTGAGGATAATGA
GGTACAAGATGAGTTCTAGAAAAGCTGGAGACCTCTGAATTTTTTGGAGCTGACGTGAGA
GGAGAAGCTACAGATCTTGACAGCACTGTGCCACCGGATCCTCATGACATACTCAGTGCA
AGACCACATGGAGACCAGACAGCAGATGTCTGCAGAGTTGTGGAAGGAACGGCTTGCTGT
GTTGAAGGAAGAAAATGATAAGAAGAGAGCAGAGAAAACAGAAACGGAAAGAAATGGAAGC
CAAAAATAAAGAAAATGGAAAAGTTGAGAATGGGTTAGGCAAACTGATAGGAAAAAAGA
AATTGTGAAGTTTGAGCCCCAAGTAGATACAGAAGCTGAAGACATGATTAGTGCTGTGAA
GAGCAGAAGGTTGCTTGCCATTCAAGCTAAGAAGGAACGGGAAATCCAGGAAAGAGAAAT
GAAAGTGAAACTGGAACGCCAAGCTGAAGAAGAACGAATACGGAAGCACAAAGCAGCTGC
TGAGAAAGCTTTCCAGGAAGGGATTGCCAAGGCCAACTAGTCATGCGCAGGACTCCTAT
TGGCACAGATCGAAACCATAATAGATACTGGCTCTTCTCAGATGAAGTTCCAGGATTATT
CATTGAAAAAGGCTGGGTACATGACAGCATTGACTACCGATTCAACCATCACTGCAAAGA
CCACACAGTCTCTGGTGATGAGGATTACTGTCTCGCAGTAAGAAAGCAAACCTTAGGTAA
AAATGCAAGCATGAACACACAACATGGAACAGCAACAGAAGTTGCTGTAGAGACAACCAC
ACCCAAACAAGGACAGAACCTATGGTTTTTATGTGATAGTCAAAAGGAGCTGGATGAGTT
GCTAAACTGTCTTACCCTCAGGGAATAAGAGAAAGTCAACTTAAAGAGAGACTAGAGAA
GAGGTACCAGGACATTATTCACTCTATTCTAGCACGGAAGCCAAATTTGGGTCTAAA
ATCTTGTGATGGCAACCAGGAGCTTTTAAACTTCTTCTGTAGTGATCTCATTGAAGTTGC
AACAAAGTTACAAAAGGAGGACTTGATATGTGGAAGAAACATCAGAATTTGAAGCCCG
GGTCATTTTCATTAGAGAAATTGAAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAG
TGTCTATAAGAAATTTCTCCAAGGCTTCATGGCTCCCAAGCAAAAGAGAAGAAAACCTCA
AAGTGAAGATTGAGCAAAAACCTGAGGAAGTGGATGAAGAGAAGAAAATGGTAGAGGAAGC
AAAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAATCCGGAAGCTCAGACTTTCTC
CAGGATGCACGTGCTGCTTGGGATGCTTGATGCCTGTATCAAGTGGGATATGTCCGCAGA
AAATGCTAGGTGCAAAGTTTGTGAAAAGAAAGGTGAGGATGACAAATTGATCTTGTGTGA
TGAGTGTAATAAAGCCTTCCACCTGTTTTGTCTGAGGCCGGCCCTCTATGAAGTACCAGA
TGGTGAGTGGCAGTGCCAGCTTGCCAGCCCGCTACTGCCAGGCGCAACTCCCGTGGCAG
GAACTATACTGAAGAGTCTGCTTCTGAGGACAGTGAAGATGATGAGAGTGATGAAGAGGA
GGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGATTATGAGGTGGCTGGTTTTCGATTGAG
ACCTCGAAAGACCATCCGGGGCAAGCACAGCGTCATCCCCCTGCAGCAAGGTGAGGCCG
GCGCCCGGGTAAGAAGCCCACTCTACCAGGAGGTCTCAGCCCAAGGCACCACCTGTGGA
TGATGCTGAGGTGGATGAGCTGGTGCTTTCAGACCAAGCGGAGCTCCCGGAGGCAAAGCCT
GGAGCTGCAGAAGTGTGAAGAGATCCTCCACAAGATCGTGAAGTACCGCTTCAGCTGGCC
CTTCAGGGAGCCTGTGACCAGAGATGAGGCCGAGGACTACTATGATGTGATCACGCACCC

FIGURE 1 (CONT'D)

CATGGACTTTTCAGACAGTGCAGAACAAATGTTCTGTGGGAGCTACCGCTCTGTGCAGGA
GTTTTCTTACTGACATGAAGCAAGTGTTTACCAATGCTGAGGTTTACAACCTGCCGTGGCAG
CCATGTGCTAAGCTGCATGGTGAAGACAGAACAGTGTCTAGTGGCTCTGTTGCATAAACA
CCTTCCTGGCCACCCATATGTCCGCAGGAAGCGCAAGAAGTTTCCTGATAGGCTTGCTGA
AGATGAAGGGGACAGTGAAGCCAGAGGCCGTTGGACAGTCCAGGGGACGAAGACAGAAGAA
GTAGAGAGGCAGGGCCGTTGGTGACAGTATCAGTGAGTGCCATACAGAATTGTGTATTAC
CAGCATCATGAAACAGTTGTGGTCTTTTGAAGTTGATCTTGGCAGAGTAAAGGGACGTGTC
CTGGAGCCATTCTGAATCTCCCCTTCTTTGTGACAGCTCCTCCCACCCCCCAAAAAAT
AAAAAAACCACAAAAAACAAAAAACAACTAAGGCACTTCACTTAGAGACTGGAGTCC
TGCTTATAATCATGCATATAACCTTTACTTTGATGGATCTGGCCAGAGGGGTGTTGGAGC
CCAGCCCACCCACATACCAGTCAAGCTCTTAGGGGAGCAGAAGAAAAGCAGGAAGAATTT
AAATGTTTAAATTTTTTTTTTAAATTGACTTTTCTAGTTATTAAAAGTTGCTTGTTTCAGC
AGTGATATTGTATAAAGAACATCTTGTAAGATACTCCTGACATCTTGCTTTAGCACATGT
ACAGTACAGTTTCTATGATAATGTGTTTGTCTAACTTCCCTGGCTTCTCCTTCAGCCCA
TCCACTCTCCTCTAGAGCAGTTGGGTTGGAGGCTCATTGAGGCAAGCAGCAACATTGGAG
GGGGAGCAGGGCAGTGCTGTGTCTGCTGCCTCCCATGCCGTTCTGACCTCAGCCTTGGA
ACTCCTCAAGAACCTGAAGATTGAGAGCGGCAGAGAAGCTCTGAGAGCCCCTTCCCCAC
AACAAATCTAGCTCTAGTTGTTATATTTAGGCAAACTTTGTAGTCTTCTTTCCCTTTTA
TGATGGATTTTGATAAAGTACAAACAGGGTTTTTCTTTTTTATCACCTTTGAATTTGG
AAATTTTGAGCACCCAAGCTCTTCTGTACCTATTTAAAGTCCACCAAGGGGACTGCAGCT
CCTAGAACATGAGAATCAAGCCTCTTAATTTTAAACTGCGGAATGTGGCCTCTGCTTCCT
CCGTCTCCTGCCCAAGGACGACGAGGATTGCTCCAGGGCTGCTGGGTAGTTTACCGTCC
CTTCTATAGGCATGGAGTTGGCACTGACATCACAGCTTCATAACCCACCACCGCCAGCT
TCCCCTGCCTCCTACATCCAGTCTGTTCTTGTTTCATAGTGAGAATCCTGTGTTCCCACTT
CAGTGACACCTGAATTGTTTGTGTTGTTTTTTTTTTTTTATTGTCTTCAAAGAGGAAGGG
CCCCATTAAAGGGTGAACCTTGTAATAAATTGGAATTTCAAATAAACCTCATGTACTTGTG
TTTATAAAGAAGAAACCA

Gene 828. >OTTHUMT00007006515 cDNA sequence

GAGCACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAA
TCGAATTTACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTTGGGGGTTGATACAGCA
GAGACGTCATACTTGGAAATGGCTGCAGGTTTCAAGAACAGAATCCGTAGAAGCTAGCCCT
GTGGTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCAT
TCACACAGTTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGCTCGTCCTCCTCCG
ACACCTCCGGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTT
ACCACTCCTAATTTTGATGAAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGA
AGTTATGGTACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATG
ATCTGTTGTGACAAATGCAGCGTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAG
CATATTCCTGATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGG
GCAGTGCTACTACAACGCCGGAAGGGAAGGAAATATGTGAGATGGTGATACCAGTGCAACT
GAGAGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTTTCAGCATACTCCAACATCA
ATTACTTTAACTGCTTCAAGAGTTTCAAAGTTAATGATAAAGAAGGAAAAAAGCGGG
GAGAAAGAACAACACATTTCAAATGTAAAAAGGCATTTTCGTGAAGGATCTAGGAAGTCA
TCAAGAGTTAAGGGTTCAAGCTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGA
TGGGAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACAGTAC
AGTGAGGGTGTTCAGAGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGAC
AAAAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTA
GAGAGCCATATACAAAAGAATAAGAAAATTTCTTAAATCTGCAAAAGATTTGCCTCCTGAT
GCACTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGG
TATTTCTTTAAAGACCATACCTTTTGTGTTATTCTACTCTAAATTTTCATGGGCTAGAA
ATGTGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTTCATCAGGCGGTCTTGTA
CCCAATGCAGAGGTGAGGCATGAAATTCAAGATGGAACCATACATCTTTATATTTATTCT
ATACACAGTATTCCAAAGGGAAGTGAATTAATGCTTTGCTTTGACTATGGAAAT
TGTAAGTACAAGGTGGAAGTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAA
CGTAGTTCTGAATCCATGGAAAATATCAATAGTGTTATGAGACCAGACGGAAAAAAGGA

FIGURE 1 (CONT'D)

AAAAAAGACAAAGATATTTCAAAAAGAAAAAGATACACAAAATCAGAATATTACTTTGGAT
TGTGAAGGAACGACCAACAAAATGAAGAGCCCAGAACTAAACAAAGAAAGCTTTCTCCA
CTGAGACTATCAGTATCAAATAATCAGGAACCAGATTTTATTGATGATATAGAAGAAAA
ACTCCTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAGATTGCAGAAAGGAAAAGG
AAGATGACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAA
AA

Gene 829. >OTTHUMT00007006524 cDNA sequence

ATGGCAAAAATCTCCAGCCCTACAGAGACTGAGCGGTGCATTGAGTCCCTGATTGCTGTT
TTCCAGAAGTATGCTGGAAAGGATGGTTACAACCGCAATCTCTCCAAGACGGAGTTCCTA
AGCTTCATGAATACAGAGCTGGCTGCCTTTACAAAGAACCAGAAGGACCCCGGTGTCTTT
GACCACATGAAGAACTGGATGTGAGCAGTGTGGGCAGTTAGATTTCCCAAAATTTCTT
AATCTGATTGGTGGCCTAGCTGTGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCCTCC
CAGAAGTAG

Gene 830. >OTTHUMT00007006535 cDNA sequence

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCCTGGTGTCTGTGCCCACCAC
ATCATCCCTACGGGCTCTGTGGTCAATCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAG
AGAATTCCTGAGAACCAGAGTGGTCAGCTACCAGCTGTCCAGCAGGAGCACATGCCTCAAG
GCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGCGACCCCAAGCAGGAG
TGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAACCACCTGCTAA

Gene 831. >OTTHUMT00007006536 cDNA sequence

GCGCGATGGCGGCGGCTGCCGCCGAGACCCCGAAGTCCTTCGGGAATGCGGTTGCAAGG
GCATCCGGACCTGTCTGATCTGCGAGCGGCAGCGCGGCAGTGACCCGCCCTGGGAGCTGC
CCCCAGCGAAACATACCGTTTTCAATTTACTGCTCCGACACCGGCTGGGCCGTGGGCACAG
AGGAGTCTGACTTTTGGGGCTGGGCCTTCCCCTTCCCAGGAGTGATGCTGATCGAGGACT
TTGTGACCCGGGAGGAAGAAGCCGAGTTGGTGCGGCTCATGGACCGTGACCCCTGGAAGC
TCTCCAGTCTGGACGGAGGAAGCAGGACTATGGCCCCAAAGTCAACTTTTCGGAAACAGA
AGCTAAAGACCGAGGGCTTCTGCGGCCTCCCCAGCTTCAGCCGGGAGGTGGTGCGGAGGA
TGGGCCTCTACCCGGGGCTGGAGGGCTTCCGGCCCGTCGAGCAGTGCAACCTGGACTACT
GCCCCGAGCGGGGCTCTGCCATTGACCCCCACCTGGACGACGCTGGCTGTGGGGGGAGC
GGCTGGTCAGCCTCAACCTCCTGTCCCCCACCGTGCTGTCCATGTGTGGGAGGCGCCCG
GGAGCCTGCTCCTCTGCTCGGCCCCGTGGGCTGCCCCGGAGGCCTTGGTGGACAGCGTGA
TAGCACCAGCCGGTGGTGCTATGCCAGGAGGTGGAGGTGGCCATCCCCTTACCCGCCC
GCTCCCTGCTGGTCTCACCAGGGGCGGCACGGCACAGTGGAAGCATGCCATCCACCGCA
GACACATCGAGGCCCGCCGCTCTGCGTCACTTTCCGGGAGCTGTGGGCTGAGTTTGGCC
CTGGAGGGAGGCAGCAAGAGCTGGGCCAGGAACTGCTGCGGATCGCCCTCTCCTTCCAGG
GAAGACCCGTGTGAACCGCCTCCTTGGCTCCAGACTTGACTGATCCCGGGATTGAAATGA
GGAGCACAGAACAGGGCCTCCTGCAACTCACGGGGTTTCAAGAGAAGATGGCTGACCCCT
GATGCTGTGAGCAGTGTGAGCCCTGCCAGGAGCAGGTTTGTATGGGAACGTACCTCCAG
GCAGCCCCCTTCCACCTGGACCGTGGCCACACTTTTTTGGTTATTTAGTTTGTACAGTC
TTGGGGACATGGGATCATTTTGGCTTAAAAATACTGGGGGCCGGGCACAGTGGCTCACA
CCTGTAATCCTAACACTTTGGGAGGCTGAGGTGGGCGGATCACTTGATGCCAGGAGTTG
AGACCAGCCTGGCCAAACCGGTGAAAACCCGTCTCTACAAAACTACAAAAATTAGCCGG
GTGTGGTGACTCACAGCCGTAATCCCAGCTACTCGGGAGGCTAAGGTGGGAGAATTGCTT
GAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTCGGT
GACAGAGCAAGACTGTTTTGAAAAAAAAAAAAATGGGAACATTTTAAATGATTTTCACC
TTTATTATGCATCTATTTTCATGGGGTTTCCCAGATATCTCACTGTCCAGTCCCTTCATTT
GGGGAATGTGTTGGATTAGGGAACAGGGTTGAAGATTTGAAGTTTAGACTAAAGAGCTGG
GAACAGCTTCAGAGTCAGGCTCAGCCTGACTCATGCTTGACACCCCCACGCCCAGGGAGG
GTTGGGGGATGTGAGGAGGGCAGGGAAATCTGAGAGCCTCCTTCCAGCCCCATAACGCTG
TTAACAAGTAGGAAAAATTAAAGCTCCCGGCCAGGCGCGGTGACTCACACCTGTAATCCG
AGTACTTTGCGGGGCTCAGGTGGGAGGATTGCTTGAGGCCAGCCTGGGCAACATAGTGAG
ACCCCATCTCTACAAAAATAACAAACATTAGCTGGGCGTCTGGGCATGGTGGCACACAC
CTGTAGTCCCAGCTACTCGAAAGGCTGAGGCGGGAGGATGGCTTTACCACCATGTCAAGG

FIGURE 1 (CONT'D)

CTGCAGTGAGCTCATGATCATACCACTGCACTTAACTTGGCAACAGAGCAAGACCCTGTC
CCTAAAATAAATAAAAGGAAAAACAAAAAA

Gene 832. >OTTHUMT00007006539 cDNA sequence

ATGATGGGCCTCTCCTTGGCCTCTGCTGTGCTCCTGGCCTCCCTCCTGAGTCTCCACCTT
GGAAGTCCACACGTGGGAGTGACATATCCAAGACCTGCTGCTTCCAATACAGCCACAAG
CCCCTTCCCTGGACCTGGGTGCGAAGCTATGAATTCACCAGTAACAGCTGCTCCCAGCGG
GCTGTGATATTCACTACCAAAAGAGGCAAGAAAGTCTGTACCCATCCAAGGAAAAAATGG
GTGCAAAAATACATTTCTTTACTGAAAACCTCCGAAACAATTGTGA

Gene 833. >OTTHUMT00007008148 cDNA sequence

TTAGATCCTTCTGCGGATACATGGGACCTCTCCTCACCTTTAATATCATTATGGATAAAC
AGGTTTTACATTTATCTGGGCTTTGCTGTTAGCATTAGCCTTTGGATTTGTGTCCAGATT
GTCATCGAGATGCAGGGCAGGAACCTACAGGAAAAATCTGTTCCAAAAGCAGCTCAGGAT
TTGATGACAAATGGTTATGTCTCCCTTCGAGAGAAAGACATCTTTGTGTCTGGAGTGAAG
ATTTTTTATGGTTCTCAGACTGGAACAGCAAAGTTAAGAATTCTTGCTGAAGCAGTTACG
TCCCTGGATCTGCCTGTGGCCATTATTAATCTAAAAGAATATGATCCAGATGATCATCTG
ATAGAAGAGGTGACTAGTAAAAATGTCTGTGTCTTCTGGTTGCGACATACACTGACGGC
CTACCAACCGAAAGTGAGAGTGGTTCTGCAAATGGTTAGAGGAAGCATCCATTGATTTT
CGATTTGGCAAACTTACCTGAAGGGTATGAGAGATGCGGTATTTGGCCTGGGAAATTCT
GCCTATGCTAGCCACTTCAACAAGGTTGGCAAAAATGTTGACAAGTGGCTCTGGATGCTT
GGCGTGCATCGTGTGATGAGTCGAGGGGAGGGCGACTGCGACGTGGTTAAAAGCAAGCAC
GGCAGCATTGAGGCCAACTTCAGAGCATGGAAGACCAAGTTCATCTCCAGCTGCAGGCA
CTTCAGAAAGGGGAGAGAAAGAAGTCCTGTGGCGGCCACTGCAAGAAAGGCAAATGTGAA
TCTCACCAACATGGCTCAGAGGAGAGGGAGGAAGGATCTCAAGAGCAGGACGAATTGCAT
CACAGAGACACCAAGGAGGAAGAACCCTTCGAGAGCTCCAGTGAAGAAGAGTTTGGTGGT
GAGGACCATCAGAGCCTAAATTTCCATTGTTGATGTTGAAGATTTGGGCAAAATTATGGAT
CACGTGAAGAAAGAAAAGAGAGAAAAGGAACAGCAGGAAGAGAAGTCTGGTTTGTTCAGG
AACATGGGGAGGAATGAAGATGGTGAAAGAAGAGCTATGATAACTCCTGCTCTCCGAGAA
GCCCTTACTAAACAAGGTTATCAGTTGATTGGGAGCCACTCAGGGGTGAAGCTTTGCAGG
TTTTTTTTTGTTCGATGCTCCGAGGGAGAGGAGCTTGTTACAAACACACATTCTATGGA
ATTGAGAGCCATCGCTGCATGGAAACCAACCCCGAGCTTGGCGTGTGCTAATAAATGTGTC
TTCTGTTGGTGGCACCACAACAACCTGTGGGCACTGAATGGCGGTAGAAGATGGACCAG
CCTGAAATGATCTTGAAGGAAGCCATTGAAAACCATCAGAACATGATTAAGCAGTTTAAA
GGAGTACCGGGCGTCAAAGCAGAACGCTTTGAAGAAGGAATGACGGTAAAGCACTGTGCA
TTGTCCCTCGTGGGAGAACCAATAATGTACCCAGAGATCAACAGGTTTTTTGAAGCTACTC
CACCAGTGTAATCTCCAGCTTCTGGTCAAAAATGCACAATTTCTGCGGAAATCAGG
AACCTCGAGCCAGTTACTCAGCTGTATGTGAGTGTGGATGCCAGTACCAAAGACAGCCTG
AAGAAAATCGACCGCCCACTCTTCAAGGATTTCTGGCAGCAATTCCTTGACAGTTTAAAA
GCCTTGGCAGTCAAGCAACAACGAACTGTCTACAGACTGATGCTCGTGAAAGCATGGAAC
GTGGACGAGCTCCAGGCCTACGCGCAGCTCGTGTCCCTGGGGAATCCTGACTTCATCGAA
GTGAAGGGCGTTACCTACTGCAGAGAAAGTTTCAAGCAGTCTTACCATGGCCCATGTG
CCCTGGCATGAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCCGAATAT
GAAATTGCATGTGAACACGAACACTCTAATTGCCTCCTGATAGCACACAGAAAGTTTAAA
ATTGGTGGTGAATGGTGGACATGGATCGATTATAACCGCTTCAGGAGCTCATCCAGGAA
TATGAAGATAGTGGTGGATCAAAAACGTTTCAGCGCAAAGGATTATATGGCCAGAACTCCT
CACTGGGCATTATTTGGTGCCAATGAAAGAAGCTTTGATCCCAAGGACACAAGACATCAG
AGAAAGAACAATCAAAGGCTATTTCTGGATGT

Gene 834. >OTTHUMT00007006547 cDNA sequence

ATGATGATGATAAAGGCTGTGACCATAGATAAACTGCAGGGAAGTTCTGTTACTGTATCT
ACCGAAGATGGTTTGTCTGAAAGCCAAGTATCTTTATACAGAATCATCATTTCTGTCTTCT
GCTGCTGGGGATATTACATTAGGAAGTGTTCAATATAACATTACAAAGCAAGATGGGT
AACATCACAGTATCGTCTTCTGGATGTCTAAAAGCCTCAACTAATCAGGGTGCCATAGAT
GTTTATGTGAGCAACTGGGGAAAGTGGAATTGAAATCCCATAAAGAACGCGGCTCCTCA
CCAGTAACGGAACAAAGCTGGATGGAGAATGACTTTGACGAGTTGAGAGAAGGCTTCAGA
CAATCAAACACTCTGAGCTAAAGGAGGAAGTTTGA

FIGURE 1 (CONT'D)

Gene 835. >OTTHUMT00007008151 cDNA sequence

CAGTGTAAGAAGTGGCCAAGTCCAAGGCAGAAGTGGCCTGCATCGCAGTGACGAAACA
GACGTGTTTGTGTCGTCGGAACCGAGAGAGGATGCGCTTTTGTAAATGCCAGGACGGATTTT
CAGAAAGATTTTGCAAAATACTGTAGGCGTTTAAATTTTATCCTTTAGGGACTGTGTGAG
GTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCGGGCGAAACGGAAATACTC
AGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTGTCATGGTAAAGCCTTAGGGACAACAGTG
ATGGTGTCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTGGCTGTGGTAGTGACAGGGG
CTTCCGGAAGGCGTTGCCTTTCAACACCCTGAGAATTACGACCTTGCAACCCTGAAATGG
ATTTTGGAGAACAAAGCAGGGATTTTCATTATCATATAATAGGGGCTGGTGTGTGTTTTTT
CATTCCTCTACAGGTGGCCCTGGGATGGTAACAGATGCGGAGAGATCCATAGTATCACCA
AGTGAAAGCTGCGGCCCCATCAATGTGAAAACCTGAACCCATGGAAGATTCTGGCATTTC
CTGAAAGCAGAAGCTGTCTCAGTCAAGAAAGAATCAGAAGATCCTAATTACTATCAATAT
AATATGCAA

Gene 836. >OTTHUMT00007008153 cDNA sequence

AGGGATGTCTTCTCTGAGATCCGTGCTATCTGCATTGAGGAAATTGGGTGTTGGATGCAA
AGCTACAGCACGTCTTTCCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCTGCAT
GATAAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGGTAAC
CGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGTTTCC
ATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATC
CTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTG
TAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTC
TACCCTGAGTGCAGAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGCGCC
CAGAGGACTTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCAC
GCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAG
GGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGC

Gene 837. >OTTHUMT00007006552 cDNA sequence

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCA
GCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCC
GCGTCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGC
ATAGCCGCCTCTTCGACCAGGCCTTCCGGCTGCCCCGGCTGCCGAGGAGTGGTTCGAGT
GGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCATCGAGA
GCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGG
TCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCG
CCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGTACCCGGCAAGCAG
AGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGCTGC
CCCCCGGTGTGGACCCCAAGTTTCTCCTCCTGTCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCT
TCGAGTCGCGGGCCAGCTTGGGGGCCAGAAAGCTGCAAAATCCGATGAGACTGCCGCCA
AGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCC
ACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAAC
CACCTGT

Gene 838. >OTTHUMT00007006555 cDNA sequence

GAGGCGGCTGCCTGCTGCTCTGCAGGTACCATGGAGCTGAGCTATAGGCTCTTCATCTGC
CTCCTGCTCTGGGGTAGTACTGAGCTGTGCTACCCCCAACCCCTCTGGCTCTTGACGGGT
GGAGCCAGCCATCCTGAGACGTCCGTACAGCCCGTACTGGTGGAGTGTGAGGAGCCACT
CTGATGGTCATGGTCAGCAAAGACCTTTTGGCACCGGGAAGCTCATCAGGGCTGCTGAC
CTCACCTTGGGCCCAGAGGCCTGTGAGCCTCTGGTCTCCATGGACACAGAAGATGTGGTC
AGGTTTGTAGGTTGGACTCCACGAGTGTGGCAACAGCATGCAGGTAACCTGACGATGCCCTG
GTGTACAGCACCTTCTGCTCCATGACCCCCGCCCCGTGGGAAACCTGTCCATCGTGAGG
ACTAACCGCGCAGAGATTCCCATCGAGTGCCGCTACCCAGGCAGGGCAATGTGAGCAGC
CAGGCCATCCTGCCACCTGGTTGCCCTTACAGGACACGGTGTCTCAGAGGAGAAGCTG
ACTTTCTCTCTGCGTCTGATGGAGGAGAACTGGAACGCTGAGAAGAGGTCCCCACCTTC
CACCTGGGAGATGCAGCCACCTCCAGGCAGAAATCCACACTGGCAGCCACGTGCCACTG
CGGTTGTTTGTGGACCACTGCGTGGCCACACCGACACCAGACCAGAATGCCTCCCCTTAT

FIGURE 1 (CONT'D)

CACACCATCGTGGACTTCCATGGCTGTCTTGTGACGGTCTCACTGATGCCTCTTCTGCA
TTCAAAGTTCTCGACCCGGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTT
GCTAATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTCACCCCTAGCTGAG
CAGGACCCAGATGAACTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAACAGCTGGTTC
CCAGTGGAAGGCTCGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACTCCA
AGCCATTCCAGGAGGCAGCCTCATGTCTATGAGCCAGTGGTCCAGGTCTGCTTCCCGTAAC
CGCAGGCATGTGACAGAAGAAGCAGATGTACCGTGGGGCCACTGATCTTCTTGACAGG
AGGGGTGACCATGAAGTAGAGCAGTGGGCTTTGCCTTCTGACACCTCAGTGGTGCTGCTG
GGCGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTTATCCTGGTTCTCACC
AGGAGGTGTGCGACTGCCTCCCACCTGTGTCTGCTTCCGAATAAAAGAAGAAA

Gene 839. >OTTHUMT00007006556 cDNA sequence

ATGGACCAGTACCATCTGTGGCCCATTAGGAACCAGGCTGCACAGCAGGAGCCCAGCCTC
ATCCCGCTCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGGTATTCTGGCATTCTCCTG
CAGTTTTTCATTTGCTACGTGGACAGAAGGGGGTGAGGAAGAAGAAGAGATGTGTCTCATCAT
TCCAGTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCCAGGGAGAAAAGGCAGATACA
ACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGT
AAGCGGAAAGTTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCTCCACCT
CCCCAGCTTGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTA
CAGTGGTTCAACCAGGCCTTGGAGGACAAGAGCGCTGCCTCGAACTCTGTCACTGAGACC
CCACCTATCACTCAGCCTTCATTTACCTTTACCTTGCCTGCTGCTGCACCTGCCTCCCCA
CCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAG
ACTCCCCCGAGCCTGCCACCCCTGCCCACTTCGAGGGCTGCTGGTGTTCCTGGCCCCAGGCC
TTCACGGCACTGCGCGCGCACACCTCTTTATCAGACTCTGCTGGAGCAGCAACCACTGAG
GCCCTCTCACCTCCAAAGACACCCAACCTCCTACCCCGCTGGGTTTATCACAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAACCCCCGACCACTTTGCTGGGG
CTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAG
GCAGAGACGACTACCAAACCCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGC
TTCCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCCCTGCTGCATCTTCA
GCATCTCCCATGTTCAAGCCCATTTTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCC
ACACCGCCTGGCCCTTCAGTCTCAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACC
ACCAGCACCAAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCT
GTGCCCTTGCCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCACTGCTCCCACCACA
ACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCT
GCCAGTCCATCCACAGACTCTGCTTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTTCCAGCCTTTCTCTC
TTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTCAACCCCGGCCATGGGCTCCATATTCCAG
TTTGGCAAACCTCCTGCCTTGGCCACAACCAACCAAGTCAACACCTTCAGCCAGTCCCTG
CCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGC
ACCCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCAGTAACACG
AGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATAT
CCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCC
AAGCCAGCCCTTACCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAAACTCTGCAGCCCCG
GCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGATCGTGCCTGCGCACGTGCCT
ACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACG
GCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTC
TTCTCCTTCGGTGCAGCCACCAGCTCTGGCTTTGGAGCCACCACCCAGACCGCCAGCAGC
GGGAGCAGCAGCTCGGTGTTTGGCAGCAACAACCATCACCTTCACGTTTGGGGGTTCG
GCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCC
ACCACCGGAGCTTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCC
TTCGAGGGGGCTTAGGTGAGAACGCCCTGGGCACCAACCGCCAGAGCACACCGTTTGCC
TTCAACGTGGGCAGCAACAACCTGAGAGCAAACTGTGTTTGGAAACCGCCACCCCCACCTTT
GGTCTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCA
TCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTGACCTTTCTCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCCCTAGGGGCTCGACAGCGACTGCAGGCCCGAAGGCAG

FIGURE 1 (CONT'D)

CACACCCGCAAAAAGTAG

Gene 840. >OTTHUMT00006006400 cDNA sequence

CACCACCAGCCCTGAAGCTGTCTGTGAACGAACTCTGGTGGTGAACCCCTGGGGAGAATG
TGACGGTGCAGTGTCTGCTGACAGGCGGTGATCCCCCTCCCCAGCTGCAGTGGTCCCATG
GGCCTGGCCCACTGCCCCTGGGTGCTCTGGCCAGGGTGGCACCCCTCAGCATCCCTTCAG
TGCAGGCCCCGGGACTCTGGCTACTACAACCTGCACAGCCACCAACAATGTGGGCAACCCTG
CCAAGAAGACTGTCAACCTGCTGGTGCATCCATGAAGAACGCTACATTCCAGATCACTC
CTGACGTGATCAAAGAGAGTGAGAACATCCAGCTGGGCCAGGACCTGAAGCTATCGTGCC
ACGTGGATGCAGTGCCCCAGGAGAAGGTGACCTACCAGTGGTTCAAGAATGGCAAGCCGG
CACGCATGTCCAAGCGGCTGCTGGTGACCCGCAATGATCCTGAGCTGCCCCGAGTCACCA
GCAGCCTAGAGCTCATTGACCTGCACCTTCAGTGACTATGGCACCTACCTGTGCATGGCTT
CTTTCCAGGGGACCCGTGCCCGACCTCAGCGTCGAGGTCAACATCTCCTCTGAGACAG
GTGTGCCGCCCCACCATCAGTGTGCCCAAGGGTAGGGCCGTGGTGACCGTGCGCGAGGGAT
CGCCTGCCGAGCTGCAATGCGAGGTGCGGGGCAAGCCGCGGCCGAGTGCTCTGGTCCC
GCGTGGACAAGGAGGCTGCACTGCTGCCCTCGGGGCTGCCCTGGAGGAGACTCCGGACG
GGAAGCTGCGGCTGGAGCGAGTGAGCCGAGACATGAGCGGGACCTACCGCTGCCAGACGG
CCCGCTATAATGGCTTCAACGTGCGCCCCCGTGAGGCCAGGTGCAGCTGAACGTGCAGT
GCCCCAGTCCCGCCGAGGTGGAGCCAGTTCCAGGACGTGCGCCAGGCGCTGGGCCGG
CCCGTGCTCCTGCGTGTCTGCTGCTGCGAGGCAGCCCCAGCGCATCGCCTCGGCTGTG
TGGCGTTTTCAAAGGGCAGCTGCTGCCGCCGCCGCTGTTGTTCCCGCCGCCGCGAGGCG
CCGGATCACGCGGAGCTGCGCCTCGACGCCGTAACCTCGCGACAGCAGCGGCAGCTACGAG
TGCAGCGTCTCCAACGATGTGGGCTCGGCTGCCTGCCTCTTCCAGGTCTCCGGCTGTCCA
AGAACTACTCCTACGTGCTGCAGTGGACTCAGAGGGAGCCCGACGCTGTGACCCCTGTGC
TCAACTACAGACTCAGCATCCGCCAGTTGAACCAGCACAAATGCGGTGGTCAAGGCCATCC
CGGTCCGGCGTGTGGAGAAGGGGAGCTGCTGGAGTACATCCTGACCGATCTCCGTGTGC
CCCACAGCTATGAGGTCCGCCTCACACCCCTATACCACTTCGGGGCTGGTGACATGGCCT
CCCGCATCATCCACTACACAGAGCCCATCAACTCTCCGAACCTTTTCAAGACAACACCTGCC
ACTTTGAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACCTTTGACTGGA
CGCGGCAGAATGCCCTCACCCAGAACCCCAACGCTCCCCCAACACTGGTCCCCCCACCG
ACATAAGTGGCACCCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCTCGGGAGC
TGGGGGACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTCTACTGTG
TCTCCTTCTTCTACCATGTACGGGAAACACATCGGCTCCCTCAACCTCCTGGTGCAGT
CCCGGAACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAGGGCAATG
TGTGGCAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATTTTTGAGG
GGGTTTCAGGCCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCACTGAAGAAGG
GGGAGTGTCCCCGGAAGCAGACGGATCCCAATAAAGTGGTGGTGATGCCGGGCAGTGGAG
CCCCCTGCCAGTCCAGCCACAGCTGTGGGGGCCCATGGCCATCTTCTTGGCGTTGC
AGAGATGATGAGAGCTGTGTGGCCACCCCCCAACCTTGCCCCCGGCACACCAAAGTGTG
CACATTGTACCAAAGACTGACCCCCGCCAGCTGGGGTGCCAGGGGCAGGGCCGGCCCCGC
CAGGGAGGGGGCCTGCATTGGCTGCAAGGATGAGCAGAGAACAAGGACAGAGGCCAGGCA
CTGAGGCCCTGGAGACAGCTGTTCCACTTGACACACGCACACACTCATGCTCACACACA
CAGAGATATATTAAAGCACAAGTTTCTATCTGA

Gene 841. >OTTHUMT00007006557 cDNA sequence

ATGGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCC
CTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGGACCGGGGCGTGCTGAAG
GACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCTGATGCTTCGGTGCTAAAATAC
TCGGGATACCTGGAACACATGGACAGACCCCTTCGATTCTAATTACTTTAGGAAAACCTCCT
CGGCTAATGAAACTTGGAGAGATTACACTGTGGGGCATGGAGCTGGGCCTTCTGAGCATG
CGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACGCTGGGC
TGCCCTCCCTTGATCCCCCAACACCACTGTCTGTGTTGAGATTGAGCTGCTTGACTTC
CTGGACTGTGCTGAGTCAGACAAGTTTGTGCTCTCTCAGCTGAGCAGCAAGACCAATTT
CCACTTCAGAAGGTCCTGAAAGTGGCAGCTACGGAACGGGAGTTTGGCAACTACCTTTTC
CGCCAGAATCGTTTCTATGATGCCAAAGTGAGATATAAAGGGCCCTGTTGCTTCTGCGC
CGCGCATCAGCACCCCTGAAGAGCAGCACCTGGTGGAGGCCGCAAGCTTCCTGTTCTC

FIGURE 1 (CONT'D)

CTGAACCTGTCTTTACATACCTGAAGCTAGACCGACCCACCATAGCCCTGTGCTATGGA
GAGCAGGCTTTGATCATTGACCAAAAGAATGCCAAGGCCCTCTTCAGGTGTGGACAGGAC
AGTCTGGCGGTGTTGCCAGAGTGTAGGAGGCCGCCCTCTACAGCTGGGTTTTTGA
GTGCTCGGCCGTGCGCTGCACCAGCAGTTCAGCAAGCTGTTACAGGGACTATGTGGAT
AAAGAGAAAGAAATGTGGCACCGCATGTTTCGCGCCCTGTGGCGATGGTTCTACAGCAGGA
GAAAGTTGA

Gene 842. >OTTHUMT00006006402 cDNA sequence

TTCCCCCTGTCTGAAGAAGGGGAGCAGGTTTCTGAGTACTCCGGGGCGCGGTGCCTCCCC
CTAAACGCGAATGGAACTTTTGGGAAATGCCCCCTCCCCAGCCCCCTTGTCTGGGGCAACT
TCCTTGTCTCTTCTCCCCACCGGTGTTGGGGAGTTCCTTGTCTCCACTCCCAACCACAG
AGCCACAAGTACATTATCTATGCCCAGGCGAGTCCCTATGCCCAGGCTAGGAGAGCCGCA
CTTCTTCTACAGCTGACACGTTTTGGTTTTTGGAGGGGAAAGGGGAGCTGTAGCTGAATC
AGTAATGGAATTTGATGAACCTGTGATGTGACTCCTGGGAGTAGTTTGCAATCACCATTG
GCCCAAAGGAGCCATCTACGTGCTCAGTGGGGTCTAGTAAAGGATAATATTAATTCTT

Gene 843. >OTTHUMT00007006563 cDNA sequence

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGGGCGAGGTGGA
GGCCAGGACTCTGACCCCTGCCCCCTGCCTTCAGCAAGGCCCGGCAGCGCCGGCCACTA
CGAACTGCCGTGGGTTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTGCGGAATGA
AGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCCAACATCATCAT
TGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCT
GGGCCAGCACTCAAAGATGCCATGTTGGAATCAATGCTTCAAATGACAGGGGCATTGA
CGTTGTGAGGAATAAAATTTAAATGTTTGTCTCAACAAAAAGTCACTCTTCCCAAAGGCCG
ACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCAGCAAGCCTT
GAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTAATGCTTC
GGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACAC
TGATGACGGCCTAGAAGCCATCATCTTCACGGCCCGGGAGACATGAGGCAGGCGCTGAA
CAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCAAGGT
CTGTGACGAGCCCCACCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAATGCCAA
CATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTTCAGTGTGTAAAACTTTCCAAATGGCAGAATACCTGAAACT
GGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACTCTCT
TTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAAGACAATGGCCCCGGTGGCCAG
TTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGGAGCCGC
GGCTTTCTGATGGGGGAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGA
GGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCC
TGTCTTTACTAAAAATATAAAATTTAGCTGGGTGTGGTGGCGGGACCTGTAATCCAGC
TACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGC
CAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAATT
AAATAAATAAACTCCCG

Gene 844. >OTTHUMT00007008169 cDNA sequence

ATGGCGCAACCAAGCAAGAGAGGGTGGCGGTGCCAGACACCAACGGTCGGAAACCGCC
AGACACCAACGGTCGGAAACCGCCAGACACCAACGCTCGGAAACCGCCAGACACCAACGC
TCGGAAACCGCCAGACACCAAGGCTCGGAATACACGCCAGACCACGACGGAGGGCGACCA
CCTCCCTTCTGACCCCTGCTGCGGGCGTTTCGAAAAAAAACGCAGTCCGGTGTGCTCTGAT
TGGTCCAGGCTCTTTGACGTACCGACTCGACCTTTGACAGAGCCACTAGGCGAAAAGGA
GAGACGGGAAGTATTTTTTCGCCCGCCCGGAAAGGGTGGAGCACAACGTGAAAGCAG
CCAATGGGAGCCAGGAGGCGGGGCGCTGTGGGAGCCGTTGAGGGCACTTTCCAGTCC
CCGAGGCGGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCTCGAGTACAGAACCTGC
TAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGT
ACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCAC
TAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGG
ATGTGGGGTAGAAGAAGAAAACCTCGAAGGCTTAACCTCTGAAACATCACACATCTAAGAT

FIGURE 1 (CONT'D)

TCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTTCGGGGGAAAGCTCTGAG
CTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCACGTATCGGCGAAGGTTGG
GACTCGACTGGTGTGTTGATCAGCATGGGAAAATCATCCAGAAAACCCCTACCCCAACC
CAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGA
ATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTG
TCAGTTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTGCAAACTGACTCCTAG
AAGTACCCCAACCCCTGCTCCTTGGAGGACAACGTGATCACTGTATTAGCTCTGT
CAAGAATGGTCCAGGTTCTTCTAGA

Gene 845. >OTTHUMT0006006404 cDNA sequence

CAGGCCTACACTTTGTGCATCCAAAGTCAGAAGCACACTTATGAGATCAATTTAGTTTCAG
CATGTGGAAGAATGGCATTCACTGAGCTATGCCATCACGTACATAAAGAAAATGTAACC
ATGGCTGCAGAGATTTCTGTTGGGTCACTCTAAACTGTTACCAAGATATGTAAGTGAAGT
TGGATCCTTTCAACAAATCTCTATATGAGGGGCTGAATATAGAGAACCAACGAACTAAGA
TCATTGTTCATCTTCTGAAAGATGAGAAGTAACATTCTTTCCTACCATCATTGGAGGCA
ACGTTGATGGCCTTCTGGTTTTGATAATTATAGTCATTCTGTCCAAGTGTGGCATTTC
CCCCAGCCCTCTTCTCGTGTTAGCAAGGTATGTGGCTTTTTTAAAAAGAAAATATCAATAA
TTGAAGTTAGCATAGGGAAGGCCAGATGAAGCCAGCGAATCTGCTCACAGAAAAAAAT
AA

Gene 846. >OTTHUMT0006006406 cDNA sequence

GCGGCCGCTGCGACTCCGGAGCCGGCGGGGGGCTCCGGTCCTTCCCTGCGCCACCGCACA
GGACATCTCTCTGGCTGGGGAGCGGCGGTGAGACCCGCGAGGGCGTCTGTGTCCCTCCT
CCCCCGCGGTCTCGGTGCGTCCGCACGCCCCCTCCTCCTCGGCTCCCTCCTTCTTCTC
CGCGCCTCTCCGCCCCCTCCCCGTCTCCGCAGGCCGAGTGGTGCGGCCCGCTCCAGCTG
ACCGGCCTGGAATCCCGGCTCCGAGCCCCCGGACTCGCGCCCCCGCGCGCCCCGCTCCTT
CCCCCTCCCCCGCCCCGAGCCCCCGACGCGCCCGCCACCGCTCCTCAGAGCGGGGCC
CGGGCCAGCCGCGCCACCGCTGCCGCGCGGAGCTCCGCGCGCGCGGAGCACCATGGG
AGACGCTGGGAGCGAGCGCAGCAAAGCGCCAGCCTGCCGCTCGCTGTCCCTGCGGCTT
CTGGGGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCTGATTTTCAAAGAA
ACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCAGATTTGTTTTCCGA
AGAGACCACAGTGACAACAACAATACCTCGATAACCAAGCCAACTCTTAGTCCCAGCCA
GCAGCCGCTTCCGACAGAACTGAATGTAAGTTTACCGAGTAAAGAGGAGTGTGGGCCATG
CACAGACACAGCTCATGTCTCATTAAATCACACCAACAAAAGATCCTGTGGTACAGCAGA
TTCACAGTCTGAGAATGAGGCTTACCAGTAAAACGGCCACGACTACTTGAGAATACGGA
ACGGTCCGAGGAAACAGTCGATCTAAACAGAAGAGTGCAGCTCGGTGCTTCCAGTGCCA
AACCAACTGGAGCTGGTGCAGCAGGAATTGGGATCGTGTCGCTGCGGTTATGTGTTCTG
TATGTTACATCGCCTCCCCGAGCAGCAGACTGCACATTTCGACCACATGGGCCGTGGCCG
GGAGGAAGCCATCATGAAATGGTGAAGCTGGACCGGAAAGTGGGGCGCTCCTGCCAGCG
CATCGGGGAGGGGTGCTCCTGAAGGCCAGGCATGGCCACCACGTGACGCTGTTCTTAGTT
CACTAATGTTAGCCTTATTTAGGACAAAGTCAGCCAGACACCTTGTACTGGGCACGCGTC
AGACTGCAGCCAGTCCGTTTCTTTCTTTAGCCAGCCATCCTGGTACTGTAGTTTAGGGG
TTGATGGTGGTTGAAATTGATTTCTGGCTGGTTACTAAGGTGCCTGCTAGCCATTGTATA
AAATTAAAACATGAAGAATATTTTTTTTTTTGAGCATGGCTAGTGGATTTAAAACAACACA
TACCTGTCACTGCTGGAGTCAAACCTATAAAAAGCCTTAAGTGGAAAGTGTTCAGACGG
AGACTCTGAGTTAATAGAGGAGTAGAAGCTGGTGTAAAGTTCCACGACGCACATGGCT
TTGCCAGAACTCTGTTTAATGATCGGCCTTTACCTCTTCACTTATCCTTAGTCCCAGT
AGCCAGGATACCTGATGGCCACGTGTGCCTTGGCCACGGGAGGCTGCTGAGATTGGCCAC
GTGGCTGGGCTGGGTGGTGGCCTCACTCTCCACAGAGCTGGAAATGGGGGTGGGGGAC
AGATTCTTACGGAATTTTTTTTACCTGACTTGCTATGAAAAACTCATCACACAAGAAGA
GAAACAGTAACCTCACTTTGAAATTAGCTCCACTCAAGACTAGTCCACGAACGAGACCC
GCCTTTTCTACACAGGATCCAAGGTACAGAGAAGCAGCCAGAGTGCCCCGCTCCGCCGG
CTCTGGTCTGCCATTGCCAGTGCAGGGATCTGGCACGGACCAGATGTGGCGAATGGCAG
CACAGCGCGGTGGCTGGGTCTGCACACTGGCCTCTGCAGCCAGATTTCTATATTGGGAGT
TTTTTAAAAAGACATTTATAGCCAACAAGAATCAGTAGAAGTGTGGGAGCAGCAGCTG
GGGAAGCTGCCGCCACGGGCTCTGCCCCCTCCAGCTGGAGCCGCGCCGTGCCTCCAGGGG

FIGURE 1 (CONT'D)

CCAAGAGGATGATGTCTGCGTGGCCTCCATTCTCGTTTCTATGCAGCCCCATAGTCCAAGGAC
 ACCCAGTCCACATCTACCATATAGCAAGTTTAGTAAGGGAAGGCAGCATACGTCCCAGGG
 ACAGTGGGTTTGGATCTGTCTAGAACAGCGGTTTGTGGCTGTGGCCAGCTCCGAGAGTG
 ATATTTGCTCTGGTAGGTGAGGGCCTGAGGGTACATTTCTCCACCTGTGCCCCCTCATGT
 TCACAGAGGATTTTACGAGCTGCAACTGCGCACGCCAGGTGGGGAAGGGTGGGGTGGGC
 CTGGTTGCCCCATGTTAGGAAATCACTACCAGTCAGGTGGGGCTGGGGCTGGGTGGACAG
 GATCAGGATTCCCTTGAAAGCCCAGGCAGGGTGAAGCAGTCCCAGTGGTCTAGTGCCGCA
 TCAGATCCAGGTGGGTGAGGGCAGGAGGCCCCCTGCGGAGGCAGCGTGGATCTGCCACAC
 ATAGGCTACTGGAATAGTTTAAACCCAGCAACTTTCCTTTTTATAAAACAACAAATGGTTC
 AACTCTGTCTGCAAATTAACAGCTGAACACCTGCAACTGCAAATGTTTTTTGATCCGACG
 TACTGAAATAGGAAGTCATGCTCTTCCCACCTCCACCCACCAGAGTGGAACCCGCTGCA
 AAATCCCCAGCCTTAATTCTTGCTTCAGGACCCAGACCCGGTGTCTTGCTCTAGGGCAACC
 CAGGGCAGAGGGGCCAGGTCTGCCAGCGTTTACCACTGCTGTCAAGCCACAGCCCTTGG
 CCACCATACGGGCCATCCTCAGTGAGGCAGCCCCCATAGGCTTCCGCCAAGCTCTGGTC
 CCGAAGAGGCTGTGCGAGCCCTTCCCGGCCCTCCCCAGGGCCCCCGCCCCCTCCTCTGC
 CTGCTGCGTGGAGGCAGCCATGGGAAGGAGCCCAGGGGAGCTGGCCTGGGGGAGCGAAGC
 CCATGTTTCGCTTCTGACTTAGAGCTGGGGGGGGTGGGGGGTGGGGCTTGTTCCCCTGCA
 GTATCTGTTCTGTGAAGTTTGTAAATGTAAGGAAAGCTTAAATTCTTGATCTTTAAAA
 GAGAAAATCTTATTTAAACCTTTTTGTGTTCTAGATTTACTTACACACATAGCCTAGAGCT
 CAGTTTTAGTTTTAACATTGTGAAAATATTAAGAAGTCTTGTAACCTTTATTCTTTTTTC
 TCCTGCTGAAAAAAAATTAACCAATCGTATG

Gene 847. >OTTHUMT00006006407 cDNA sequence

TTTCTTTTTGTTTGGCCCCAGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCT
 GATTTTCAAAGAAACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCA
 GATTTGTTTTCCGAAGAGACCACAGTGACAACAACAATACCTCGATAACCACGCCAACT
 CTTAGTCCCAGCCAGCAGCCGCTTCCGACAGAACTGAATGTAACCTTACCGAGTAAAGAG
 GAGTGTGGGCCATGCACAGACACAGCTCATGTCTCATTAAATCACACCAACAAAAGATCC
 TGTGGTACAG

Gene 848. >OTTHUMT00006006408 cDNA sequence

CAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCAGATTTGTTTTCCGAAGAGA
 CCACCAGTGACAACAACAATACCTCGATAAACACGCCAACTCTTAGTCCCAGCCAGCAGC
 CGCTTCCGACAGAACTGAATGTAACCTTACCGAGTAAAGAGGAGTATACTCACTCTGTTG
 CCCAGGCTGGAGTGCGGTTGTACCATCTCAGCTGACTGCAACCTCTACCTCCTGGGTTCA
 AGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGCATTACAGGTGCCTGCCACCATGCC
 TGGCTAATTAGTAGAAACAGGATCTCACCATGTTGGCCAAGCTGGTCTCGAACTCCTGAC
 CTCAAATGATCTAACCACCTTGGTCTCCCAAAGTACTGGGATTACAGGCATGAGCCAC

Gene 849. >OTTHUMT00007008170 cDNA sequence

AGGGATGTCTTCTCCTGAGATCCGTGCTATCTGCATTGAGGAAATTGGGTGTTGGATGCAA
 AGCTACAGCACGTCTTTCCTCACCGACAGCTATTTAAATATATTGGTTGGACTCTGCAT
 GATAAGCACCGAGAAGTCCGCGTGAAGTGCGTGAAGGCTCTGAAAGGGCTGTACGGTAAC
 CGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGTTTCC
 ATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATC
 CTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTG
 TAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTAAGTGGAACTTTTC
 TACCCTGAGTGCAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCC
 CAGAGGACTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCAC
 GCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAG
 GGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAACCTGGGTGATGTGCAGGAGAGCACA
 CTGATAGAAATCCTTGTGTCCAGTGCCCAGCAA

Gene 850. >OTTHUMT00006006409 cDNA sequence

ATTCACAGTCTGAGAATGAGGCTTCACCAAGTAAAACGGCCACGACTACTTGAGAATACGG
 AACGGTCCGAGGAAACAGTCGATCTAAACAGAAGAGTCGACGTCGGTGCTTCCAGTGCC
 AAACCAAACCTGGAGCTGGTGCAGCAGGAATTGGGATCGTGTGCTGCGGTGTTTCTCTGG
 AGAGAGATGTGTGGCATTTATAGTCTGATGCCCCCTGACCACGTTGCCACTCGGACATTC

FIGURE 1 (CONT'D)

T

Gene 851. >OTTHUMT00007007515 cDNA sequence

ATGTTGCCATTACAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTCACCCAGGAG
GAGTGGCGGCAACTGGACCTGATGAGAAGATAACATACGGGGATGTGATGTTGGAGAAC
TACAGCCATCTAGTTTCCCTTGGTCCTTCTTCTTTTCCCATTAACAAGATATGATATCACC
AAGCCAAACGTCAATTAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAA
TTTCCATGTCAACATAGTCCA

Gene 852. >OTTHUMT00006006414 cDNA sequence

TGTGTGTGTGTAAGAGAGCGAGCGAGAGAGACGCCAGCCGTTGTGATGATGTTAACATTC
TCTGGGTCTACACCAGTGGCCCTTTCTGCCTGCATTTTTATTACAACATAGTCCTAACAC
TGCATTTCACTGTCAAGCACCTCCGTCCACTCCACTCCTGCGCACTCCTCCCGGCTGTGT
CTCCTGTCTTTTTTGGGTCCCTTTTGGAAATGTGGGCTCCTCAGAGTATTTGGAGCCACC
TTCCCCCAACACCTCCACCTCTAGGGGCTGGTCTTTGGGAGTGGGCAGGGGGCCTAT
GAAAAGCACCTAGCACCCACGGAAGACAATGACATCATGTGGGGCCAAGTCCGATGTCCT
CCATCACACACTATTGCCAGCTTCCATGGGCCTTGCAAGTTTAAGGGGAAAAAAATGG
GAAGCCATTTCTGAGAAAA

Gene 853. >OTTHUMT00007007518 cDNA sequence

GAGTCGGAGCCACAGCCAGAGCCCTGCCAGGCCGAGCCGGAGCTGCAGCCCCGAGCGCGG
TGGTGCCTCTAGCCCCGTCTCTTGTCTCTCCTCAGCCTCGGTGCCTTGGAATTTGTGTCTG
CTGAGTCAGCAAGCCTTTTCAAGTTTGGCCGGTTTTTGTGTTTGTGGTTTTGTATCAAGAT
GGGAACCTCAAACAAGTCATTCCTCCTAAGGAGCTGGTGTCTTCATCCAGAAGGGACAGTT
TGTGCCAGCTCTCCAGAGAGAAAAGATCTGCCGGAGGCGCTGGGCAATGACCCCGGGACT
CCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGACTCCTTGGGAAGATGGCC
ATGGCCCCAAGCCCTTCCCTGGTGCAGGTGTACACCAGCCCCGAGCTGTGGCTATGGCA
GGATGGGCTGGGCACCTGGCACCCCTACAGTGCCACCATCTGCAGCTTCATCGAGCAGCA
GTTTGTCCAGCAGAAGGGCCAACGTTTTTGGGCTTGGGAGCCTGGCCCCACAGCATCCCCCTT
GGGCCAGGCAGACCCCTCGCTGGCCCCGTACATTATTGACCTCCCCAGCTGGACCCAGTT
CCGCCAGGACACCGGCACCATGCGGACTGTGCGGAGACACCTGTTCCCCCAGCACTCAGC
CCCTGGCCGAGGTGTGCTCTGGGAGTGGCTGAGCGACGATGGCTCCTGGACCGCCTATGA
AGCCGGCGTCTGTGACGATCTGGAGCAGCAGGTGGCCAGGGGCAACCAGCTCGTGGACTT
GGCCCCCTGGGGTACAACCTACACTGTCAACTACACCACCCACACGCAGACCAACAAGAC
TTCCAGCTTCTGCTGCAGCGTGCAGCGCCAAGCAGGGCCGCTTACCCAGTGACCACCAT
CATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCAAGTGCCTCAGTGGCAG
CAGAACTGGCCCTGTATCAGGCGCTACCGCCACTCCATGACCAACCTCCCTGCATACCC
CGCCCCCAGCACCCCCCCCCACAGGACCGCTTCTGTGTTTGGGACCCACCAGGCCTTTGC
ACCATACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCTGAACACCACGAA
CGCCTGGGACGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTTACCGCTCCAGCCTCTC
CCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGCAGTCAGTGCCTC
CCTCCCCAGCGGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGTGCCCATGCAGAT
GCCAAAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGGCATGACGAGTGTTCTGATGTGAGC
CATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCAGCCCAACAGCCCTCCCGCCTCCCG
TCTGGCTTCCAAAAGTCACGGCTCAGTTAAGAGATTGAGGAAAATGTCCGTGAAAGGAGC
GACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCAAAAAAACTACACGGAAGAGCTGAA
AGTGCCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCGCAGCGTCTGGATA
CAGCGATGTGACTGACAGCAAGGCAATCGGGCCCCCTGGCTGTGGGCTGCCTACCAAGTG
CAGCCACGCCTTCCACCTGCTGTGCCTCCTGGCCATGTACTGCAACGGCAATAAGGATGG
AAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATGAGAGAAGACGGGGACCCAGCCCCAG
GGAAAGATGGAGGTATTACGGTTCAGATGTGCTCCCCGGCCACGAGGACTGCGGGACC
ATCCTCATAGTTTACAGCATTCCCCATGGCATCCAGATGAGGGGCCTTCTTGACACCCTA
TCCTGGTGTCTGTTCTCCCGCAGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACT
GCCAGAGGGTTTCCCCGCCAGTGCTACCTTCCAGACAACGCCAGGGCCGCAAGGTG

Gene 854. >OTTHUMT00007007520 cDNA sequence

AATGGAAACCAGAAATCAGATATTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTAC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGACAGGAGATGCT

FIGURE 1 (CONT'D)

ACTGCCCCGGCTCAAGGAGGTCTCTGGAGTACAATGCCATTGGAGGCAAGTATCACCGAGGT
TTGATGGTGCTAGTAGCGTTCCGGGAGCTGGTGGAGCCGAGGAACTGGATGCTGATAGT
CTCCAGTGGGCACCGACTGTGGGCTGGTATGCGCAACTGCTGCAAGCTTTCTTCCTGGTG
GCAGATGACATTATGGATTTCATCCCTTACCTGCCAGGGACAGATCTCCTGGTATCAGAAG
CTGGGCATGGGTTTGGATGCCATCAATGATGCTATCCTTCTGGAAGCATGTATCTACTGC
CTGCTGAAGCTGTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATGGAGCTCTTCCAG
CAGAATTCTTATCAGACTGAGATTGGGCAGACCCTCGACCTCATCACAACCCCCCAGGGC
AATGTGGATCTTCGCAGATGCACCGAAAAAAGGCACAAATCTGTTGTCAAGTACAAGACA
GCTTTCTACTCCTTCTACCTTCTGTAGCTGCAGCCATGTACATGTCAAGAATGGATGAC
AAGAAGGAGCACACCGAGTCCAAGAAGATCCTGCTGGAGATTCAAGAGTTCTTTCAGATT
CAGGATGATTACCTTGACTTCTTTGGGGACCCAGTGTGACTGGCAGAGTTGGCAATGAC
TTCCAGGACAACAAATGCAGCTGGCTGGTGGTTTCACTGTCTGCTACAGGCCACTCCAGAA
CAGTACCAGATCCTGAAGGAAAATTACAGGCAGAAGGAGGCCGAGAAGGTGGCCCGGGTG
AAGGCACTATACGAGGAGCTGGATCTGCCAGCCGTGTTCTTGAGTATGAGAAAGACAGT
TACAGCCACGTTATGGGTCTCATCGAATAGTACGCAGAGCCCCCTGCCCCCAGCCATCTTT
CTGGGGCTTGGGCACAAAATCTACAAGTGGAAAAAG

Gene 855. >OTTHUMT00007007536 cDNA sequence

AGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTTCTTGATATCTTCTGGTTCTCACTC
CTTGCTGCTCCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGAA

Gene 856. >OTTHUMT00007006590 cDNA sequence

ATGAAGTCCACAACCACTACTGCAGTTTCTGCCTCCTCCACCTCGTCCTCTGCCGTCTCC
ACCCCTCCTTTAATTAAGCCTGTCCTGATGTCCAAGTCAGTGCCACCTTCACCAGAGAAG
ATCTTAAATGGCAAAGGAATTCTGCCAACCACTAGACAAGAAACACCAAAATGGCACC
AAAAACAGCAACAAGCCTTACAGGAGACTTTCAAGAGAATTTGACCCAAATAAACACTGT
GGAGTATTGGATCCCGAGACAAAGAAACCTTGACAAGATCCCTCACCTGCAAGACACAT
TCGCTAAGCCATCGGAGGGCAGTCCCAGGCCGAAAAAGCAATTTGACCTCCTCCTGGCA
GAACACAAAGCAAAGTCCCGGGAAAAAGAAGTTAAAGATAAAGAGCATCTCCTGACTTCC
ACGAGGGAAATACTTCCAAGCCAATCCGGGCCCGGCACAGGATTCTCTGCTAGGGTCTTCA
GGGAGCTCTGGGCCAGAACCAAAAGTTGCATCCCTGCAAAATCCAGACCACCCAATCT
GTACTTCCTTATCTCCCATCATCTGCAAATAGCATAAGCAGCAGCACATCTTCAAATCAT
AGCGGCCACACTCCAGAGCCCCCACTCCACCGGTTGGAGGTGACCTCGCCAGCCGACTG
TCCAGTGATGAAGGGGAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTCAAGTTC
TCCACGCACCAACCCAGACCTCTGGCGTTTTGCTCATTTGGGAGTGCCTCATGGGACGA
GGGTACTATGTGTTTGATAGAAGATGGGATCGTTTTTCGATTTCGCACTAAACTCCATGGTA
GAAAAACACCTGAATTACAGATGTGGCACAGAAACCCGAGCCACAGGGCATCAGGTCCC
TCCCCCTGTTTCAAGACTTGCCCTAACCAATCTGCTGTCACTGAGCAACATTGGGGCTGCC
TGGGTGTCAACTCTGGAGAGCGTAGCACCCCGCTACCTCTCAACCTCGCTGCCCAAACC
CCAGGCCCGGGCGGGCCGAACCTGGAGGGATGGCAGCCGATGGGGGCGTGGAAGACATT
AGGAAGAAAAGGAACGGCCAAGACTCTTTTTTCTTTAAACAAGCATTTAACTCTGCATCAG
GAGCCGCCAACACAGTATTCTTTTCAAGCAAGATCCCTCCTGCGGCAGATAGCCCCCTG
CCCTCGCCAGCAGCCACATCACCAACCCCGTTCCAGCATCCGTTTTTGAGCCTTTTCAAGC
AACCCAGTGCTGTGTATCTTCTTTCAGCTCCCATCAGCTCGAGGCTCACCTCTTCTTAC
ATAATGACATCAGCCATGCTCTCAAACGCAGCTTTTCGTGACATCGCCGGACCCGAGCGCC
CTCATGTCCACACCAACAGCTTTCCCTCATGTGGCCGCAACCCCTCAGCATCATGGACTCA
ACCTTCAAGGCCCCATCCGCCGTGTCCCCGATACAGCCGTATCCCTTCCCCATCCCAC
AAGCCATCCAAAACCAAAACAGCAAATCCTCAAAAGTCAAAGACCTGTCCACCCGTAGC
GACGAGTCTCCAAGTAACAAAAAAGGAAGCCACAGTCTTCGACTTCCTCCTCCTCCTCC
TCCTCCTCCTCTTCTTGCAGACATCCCTCTCGTCTCCACTGTCAAGGCCTCACAAAAAG
AACTGTGTTTTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGCCCCCTCCCTATAAC
AGCCTGTCTGTGCAAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAACTGGAGCCC
TCAGGACGGACCTCGCTGCCCGGGCGGCCCGGACATAGTGAGACAGGTGGGCGCGGTG
GGAGGCAGCAGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGAC
CTCTCTCTGGCCTCACACAATGCTGTGTCTTCTCTGCCCCCTCTTTTTGACAAATCAGAA
GGAAAAAGCGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAAATCACTAAAATGCCT

FIGURE 1 (CONT'D)

GGTATGAATAGCGTTTCAAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCCGATCCC
GTTAACAGCACCTCCTCTCGGCAGAATTCTTTCTTCTTAAAGAAAACTGCAACTGTCA
CCAGCTGGCAAAGAAGTGTTCATGCCATGGTGCAGATAGGAGTGTGTATGAACATGTGG
CATCGGCGGGCCCTTCCCAGGCTGGCTCGTGTGTCTGAGTGGGGCTTCAATGGTGTCTTT
CAGGTTGGGAAAAATAGCAGCCTAGCTTTGTCACAATCCAGTCCTTCAAGTATATCCAGC
CCAGGACACAGCCGACAGAGGACTCCCAGGAATGTCCGCGGCATTCTGTCCTTGTGTTTTTC
CTCCACAGTGAGGACCTCTGTGACTGCCTTACATGCATGGATCCGTACCTCATTGCTA
TTGGGTCTTTAGATCCATCATCTCTTGCTATTCCAGCTGCCCTTTGCTGGATATGGGAG
GCTAGTCAAATGAAGCAGTGGGATATGCTGCATTTTCAAAAAGCCTTCCCAGGAGACTAC
AGTGTGTTGTGCTGGGTCAAGAATCACAGTAAGTCTACACCAAGCAGAAGCTGTGTACTCT
CAAACCTCTTGTGGACTCCTGA

Gene 857. >OTTHUMT00007006927 cDNA sequence

ATGGAGGATGAGAAATCTTCACCAAAGGACATGGATGAAAATGAAAGCAACCAGTCTCTG
ATGACAAGCAGCCAATATCCTAAAGAAGCAGTAAGAAAACGTCAAATTCAGCACGGAAT
TCCGGAGCAAGTGATTCTTCTAGGTTTTCTAGGAAAAGCTTCAAACCTGGATTATAGACTA
GAAGAAGATGTAATAAATCCAAGAAAGGAAAAGATGGGAGATTTGTGAATCCGTGGCCA
ACATGGAAAAACCCCTCTATTCCAAATGTTCTCAGATGGCTGATAATGGAGAAAGATCAC
AGCAGTGTTCCAAGTTCTAAAGAGGAACTAGACAAAGAACTCCCAGTGCTTAAGCCATAT
TTTATCACTAACCTGAAGAAGCTGGAGTGAGGGAAGCTGGCTTAAGAGTCACATGGCTG
GGACATGCCACGGTAATGGTGGAAATGGATGAGCTCATATTTCTCACGGATCCCATCTTT
AGCTCTCGTGCTTCACCATCGCAGTACATGGGTCCAAAGCGATTTCTGTCGTTCCCCGTGC
ACAATAAGTGAACCTCCCTCCAATAGATGCGGTCTTATCAGTCACAACCACTATGACCAT
CTGGACTACAATTCTGTCAATTGCTTTGAATGAGCGATTTGGTAATGAGTTGAGATGGTTT
GTGCCTTTGGGTCTCCTTGACTGGATGCAAAAATGTGGCTGTGAGAATGTGATTGAGTTG
GACTGGTGGGAGGAGAATTGTGTCCCCGGACATGATAAGGTCACTTTTGTCTTTACACCT
TCCCAGCACTGGTGTAAAAGGACTCTAATGGATGACAACAAGGTGCTATGGGGCAGCTGG
TCTGTCTTGGGGCCTTGGAAATCGATTTTTTTTTTCGAGGAGATACTGGTTATTGCCCTGCT
TTTGAAGAGATAGGAAAAAGATTTGGACCTTTTGACCTTGACCTATTCCCATCGGAGCT
TATGAACCGTGGTTTATGAAATACCAGCATGTAGACCCAGAAGAAGCTGTAAGGATTAC
ACTGATGTCCAAACAAAGAAATCTATGGCAATTCAGTGGGGAACTTTTGCCTTAGCAAAT
GAGTGGTTTTGTAGTTTTTCTGAAGAGGTCCTTCACATCCCTCCCTCTGCTGCAGGTCTG
CTGGAGTTTGTGCTGGAGGTCCACTCCAGACCCTGTTTGCCTGGGTATCAACATCGGAGGCT
GCAGAACAGCAAAGATTACTGCCTGTTTCTTCTCTGCAAGCTTTGTCCCAGAAGGGCAC
CCGTGAGATGCCAGCCAGAGGTCTCCTGTATGA

Gene 858. >OTTHUMT00007007586 cDNA sequence

GATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGCAGAAATTGG
AATGATGGAAGCAGAGGTTGGATTGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGT
TGGAATGAGGGAAGAAGAGGTTGGTTTGAAGGAAGCAGAGATTGGAATGATGGAAGCGGA
GGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGACTGATGGAAGC
AGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGAGGGAAGCAGAGATTGGAATGATGGA
AGCAGGGGTTGGAATGATGGAAGCAGAGGTTGGAATGGTGGAGGCAGAGGTTGGAATTAT
AGAAGCAGAGGTTGGACTGACAGAAGCAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAAT
GAGGTAAGGAGAGGTTGGAATGAGGGAAGGAGAGGTTGGAATGAGGGAAGCAGAAGTCGG
AATGAGGGAAGAAGAAGTTGGACTGATGGAAGCAGAGGTTGG

Gene 859. >OTTHUMT00007006933 cDNA sequence

CTGAAGCTAGTGAGTCGCGGCGCCGCGCACTTGTGGTTGGGTGAGTGCCGCGCGCCGCTC
GGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTT
GCCGGCTTCTGGGTCTTTGAACAGCCGCGATGTGATCTTACCCCCACCAACCAGATCC
GCCTAACCAATGTGGCCGTGGTACGGATGAAGCGCGCCAGGAAGCGCTTCGAAATCGCCT
GCTACAGAAACAAGGTCGTGGCTGGCGGAGCGGCTTGAAAAAGACCTTGATGAAGTTC
TGCAGACCACTCAGTGTGTTGTAAATGTTTCTAAGGTCAGGTTGCCAAGAAGGAAGATC
TCATCAGTGCGTTTGGAAACAGATGACCAAACTGAAATCTATTTTGAATAAAGGAGAAGTT
CAAGTATCAGATAAAGACACACAACTGGAGCAGATGTTTAGGGACATTGCAATTATTG
TGGCAGACAAATGTGTGACTCCTGAAACAAAGAGACCATAACCGTGATCCTTATTGAGA

FIGURE 1 (CONT'D)

GAGCCATGAAGGACATCCACTATTTGGTGAAAAACCAACAGGAGTACAAAACAGCAGGCTT
 TGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAACGTGCTCACATGAGGCTTC
 AGTTCATCCTTCCAGTGAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGATCA
 AGGTCATAGAAAGTAAAGATTATGGCCAACAGTTAGAAATCGTAAGAGTCAAATATTTTC
 TTTGCTTCATGTTACCTAAATATTGTATTCTCTAGTAATAAATTTGTAGCAAACATTCA
 Gene 860. >OTTHUMT00007006936 cDNA sequence
 ATGCTCCCGGCTCAGGAGGCTGCCAAGCTGTACCACCAACTATGTGCGGAACCTCGCGG
 GCCATCGGCGTGCTGTGGGCCATCTTCACCATCTGCTTTGCCATCGTCAACGTGGTGTGC
 TTCATCCAGCCCTACTGGATAGGCGACGGCGTGGACACCCGCAAGCCGGCTATTTCTGGG
 CTCTTCCACTACTGCATCGGCAACGGCTTCTCCCGGAGCTGACCTGCAGGGGCGAGCTTC
 ACGGACTTCTCCACGCTGCCCTCGGGCGCCTTCAAAGCCGCTCCTTCTTTATCGGCCTC
 TCCATGATGCTCATCATTGCCTGCATCATTGCTTTACCTCTTCTTCTTCTGCAACACG
 GCCACTGTGTACAAGATATGTGCCTGGATGCAGCTCACCTCCGAGGACAGTTCACGTGAC
 CTCATTCCACATCTCCAGCCAAGGGTCTGGGTTCCACGGATGTGGGAAGGATCCATTC
 CAGGCTCCCTCTAGCACCACCGCCCTCCCTTTCCATACCACTGGCAGAACCAAAAAGAG
 AGCAGGGTGGCAAAGCAGAAATGTGACTTCCAGAGTCCCAGCCCCAGCATCGAAAAGAG
 AGTACTGGAGGGGTGGGTTTGAAGCTAAGAAACAATAGTTTAATAACGTGCACAAATGTA
 TTATTCTTTAACGTAAGACTGAGTCAGAAAGATGAGCACTGTATATGTGGATGGGTAGAT
 GTCTACAGTGACTATGCATTGCCTACTGATGTGATGTCTGTTTCCAGGACTGATTGAGTC
 CGAGAAGAGATGGGAAAGTCAGTAGATATTGAAGCCTCAGAGGTTCCACAGAATCTAGAA
 AAAGCAGAGCAAAATAAACCCAAAGCAAGCAGAAGGAAAGAAATAATAAAGAACAGCAGT
 TCTCCATTTTGGCTGTACATCAGGGGAGCTTTAAAAAAATACCAATATCTGGATCCCATC
 CCCAAGAATTCTGATTAA

Gene 861. >OTTHUMT00007006950 cDNA sequence
 ATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
 CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
 CGACGGCGAGTGTGCTCGTGTCTCCCTGAGCACACGAGGCCTTCAACAGGCTGCTTGAG
 GATCCTGTCTATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTAT
 CTCCTGGCTATGGTCATAGCGTATTTTCAAGCCGGGCTGGCTTCCCCTCCTGGCAATACCAA
 CGCATTCTTTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
 TCCAAACAAAACATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTTGCTC
 CGTAAGCGTTGGTTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCT
 CGCATACCTTGTCTCGTAAGCGTCCGTTCCAGTTATACCGTTCCACGAACCCGAGGGCC
 AGGAAGAACCGCTCTCGCATACCTTGTCTCCGTAAGCGTCCGTTCCAGTTATACCGTTCC
 ATGAACTCGAGGGCCAGGAAGAACCGCTCTCAGATAGTCTGTTCAGAAAACGACGGTTTC
 CACTTCTTCTGTTCCATGAGCTGCAGGGCTTGGGTTTCCCAGAGGAGTTGGAGGAGATC
 CAGGCTTATGACCCAGAGCACTGGAACACTGGACCCAGGGGAGATGTGGATTTTTCAGCAG
 GAACTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGGAACCATTTGTGCAG
 ATCATCTAG

Gene 862. >OTTHUMT00007007904 cDNA sequence
 ATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCTGATAATTACAGACAAG
 AGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCTTTGTATATCTTTGAAC
 TTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCTACCAGAGACTCACCC
 AATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGCATTTTCAACGCATCTCACACTCCT
 CTGCACTCTCAACTTGGAGCGCTCCAAACAGGGAAACCCCAAGCCTTGCTGGCTTCTGCC
 AACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACCTCACCACCCTCATCCTGATC
 TCACTGTACACA

Gene 863. >OTTHUMT00007007905 cDNA sequence
 CAGGTGGCCGGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTT
 GAGGAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGGAAGTTAAGGATGTAGGGTGC
 TCCAGGCTGCACCGCCCGCAGACCGAGGCCGAGGTGCTGGAGCAGAGCGCGCAGACGCTG
 CGCGCCACCTGGGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCCCGCC
 GTGGTGCAGCGCACCTTCCGCCAGCTCTTCCGGCGCGTGCGCGAGCGCTTCCCCGGCGCC
 CAGCACGAGAATGTACCGTTTCATCGCCGTACACAGCTTCTGTGCCTGCGCTTCTTCTCC

FIGURE 1 (CONT'D)

CCCGCCATCATGTCGCCCCAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACC
AGCCGCACCCTGCTCCTGTTGGCTAAGGCAGTCCAGAACGTGGGCAACATGGACACGCCG
GCTTCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCCACCGTGCGCCAGGGCGTG
GCGCAGCTGAAGGACTTCATCACCAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGAC
CTGCAGCGGACGCTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCAC
AGGACCAAGGGCAAGGGCCCCCTCATGTCTCCTCCTTCAAGAAGCTCTACTTCTCCCTC
ACTACCGAGGCCCTCAGCTTCGCGAAGACGCCCAGCTCCAAGGTGGCTGTAGTCCCAGCA
CTTTGGGAGGCTGAGGTGGGAGGATCACTGGAGGCCAGGAGTTTGAGAACAGCCTGGCCA
ATGCCTCCCCCTCCGTGTCCCCTGCAGTGTGTGAATGAGCTTAACAGTGGCTGTCTGCG
CTGTGGAAGGTGAGCATCAACAACACCGGACTGCTGGGCTCCTACCACCTGGCGTCTTC
CGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAGACAGGTGAGGGCTGCGATAAG
ACCCGGTCACGGGTGACCCTGCAGGAGTGAATGACCCTCTTGACCATGACCTTGAGGCC
CAGCTCATCTACCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGGAG
CTGAGCGGGGGCGCAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAAGTCCCTGAGGAC
TCATTGGCCCCGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAGCTCCAGCCCG
GCCGGCTCCCCACCCTCAGAGCCCCAACTGCCTCCTGGAGCTGCAGACG

Gene 864. >OTTHUMT00007007907 cDNA sequence

ATGGAAGACAGTAGCACAGACACAGAAAAAGAAGAGGAAGAGGAGAAAGATGAAAAGGAT
CAAGAGCCCATTTATGCCATAGTGCCACAATTAACATTCAAGATGAGCGGTTTGTTGAT
TTATCTGAAACTCCAGCTTTTCATTTTTCTGCATGAGGTATAT

Gene 865. >OTTHUMT00007007908 cDNA sequence

AAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCTCTGGCCCCCTGCTTTTGTGAAGAAGCAG
GAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGA
CAGGACATCCAGCCCCAAAAGAGACCTCACCTGCTTTGTGAAATGGCCCCGCTATATCAGG
TTGCAATGGCAGAGATCCATACTCTATAAGCAGCTGAAAGTGCCTCCTGCGATTAAACCAG
TTCACCCAGGCCCTGGAAGGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCCACAAATAC
AGACCAGAGACAAAGCAAGAGAAGAAGCGGAGGCTGTTGGCCAGGCAGAGTTGTGGGCA
AAGGGGACCTCCCCATTAAGAGACCACCTGTCTTTCGAGCAGGAGTTAACACCATCACCA
CCTTTGTGGATAACAAGAAAGCTCTGCTGGTGGTGAAGTGCACACGACATGGATCCCATTG
AGCTGACTGTTTTCTGCCTGTCTGTGTGATAAAATGGGAGCCACTTGCTGCATTATCA
AGGGGAAGGCAAGACTGGGATGTCTAGTTACAGGAAGACCTACACCACTGTCTGACTTCA
CACAGGTAACTCAGAAGACAAAGGAGCTTTGGCTAAGCTGATGGAAGCTATCGGGACCA
ATTACAATGCCAGATACGATGAGACCCACTGTCACTGGGACGGAATGTCTGGGTCCCA
AGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAA

Gene 866. >OTTHUMT00007007909 cDNA sequence

TTACTAGAAAAAGAACTCTGTATTACAGAAAAGCAAATGGGTGCAAGGTACCGCAAAAT
CACGACCTACCAAATGCAGCATAGGCACAGAAAAAGAACAGTTTAAATAAGCGGAACCCC
TTATTGATGAAGAGTTAGAGTTAACACAGGGATTTACCAATTGAACTCAGAGATTTTAAAC
CAGCTTATCAAAGCTAATTAATAATGGGGTTGTGATATTGAAAATATAGCAAGAGAAGAAG
AGGGAAAAAGCTTACGGGAGGTCTTGAATACTCAACTGTGTTCTGGGAAAAACGCAATG
AGCTCCAGGACATAGACAAGATTATGGCTCAGAGTGAAAGGGAGAGATAAGAATTGAGAG
AATAATTTGCATCAGAAAAGCACCTGACAAAAGATCAGATGGTACAAAGCATCTAGCAC
CTTTTCTTCAGCTGAGGATATCATGGTACTATTATAACAGAGGGAAAACTGTACTGAGG
AAGAGGATCATTCTGTATTTTGTGTGCTTGGATTCAACAAGGAAAATATTTGTGATGAAA
TGCAATAGCCCTTACAAGCGGTCCCTGTTCTGTCTCAATTTGACTGGTTTTCTTAAATCCA
GAAGTGCAGTGGAATCCAGAGGAGATATAACACCTTCATAACCTTGATTTGTAAAGAAA
ACGTAGAACTAGAAGAA

Gene 867. >OTTHUMT00006006416 cDNA sequence

AAAAGGAGAGAAAAACCAATCAATACCAGAGGAGTGAGCTTGAGAAAAGGTAATAAGGAG
TAGGACAAACGTAAGTCAATTCCAGGATTAGTGTGAGCCTGAGGCTCTGGGGAGCGGCCT
CCGGAGATATTGACCGAGCAGGGAGAGCAGGGATTACACAAATAACCAATTAAAGAACAT
GGTGGGGCCGGATAAAGAGCTCCTGTAGCTCCGGCCTCTGTGCGCCATCAGCATCAGCCTG
GGAGTCTCCCCAGGACGGCATGGCACGTGAGCAGCACTGCAGTCTTGGGTCTTTCGGCGC
CAACCTGCAACCCTGATCA

FIGURE 1 (CONT'D)

Gene 868. >OTTHUMT00006006418 cDNA sequence

CCCCATCCATTAAAGGCAAGAGAGTGAAAAGTGGGAGAGAAAGCTCCCAAGTTCAACAGC
AGTGACCTAGGGTCATGCAGTGAGGACTTACAAAGTCCAAGAAGAAAGCATTGGAGAAG
TGCTACACATGCTCAACTGAACTTCCTGTCAAATTGTTCTCACTCGTTTGGGCACAAGTC
TGCTTAAGCCATCTCTCATTAACTTTACTCTTGCCCGAAGCCCTCTACGCCCCCAACCC
CTGCTAATCTTCCACAAGCAAGCTGATCACACTGGGATCTCCTTTTCCAGACACGTTTG
ATTCTCACTTTCTCCTGAACCTAGAAATGTGCTTCCCACCAAAGCATGCCAGGCACTAAC
TCGTCCCTACTGAAAGGGGCTGTTAAAGCTCATCTTCTTCCAGATGGTAGTGAGGTGT
GAGGTGATCCTTTCTCTTTCTTTTTTTTTTTTTTTTACTTTTAGCTACCCCTCAATTCTG
GTGTTCAAGTAACAATGTATTCCACTTAAAGAGAGAAATCATATTAATTATTCTAAGATA
TAAACACTTAATTTTATTCA

Gene 869. >OTTHUMT00006006420 cDNA sequence

ATGAACAGACAGTTGGACCTAAGTGGGAAGGTAATCATGAAAGCTCAACTTGGGGAGGAT
ATTCCAAAATTCTATTATGAAGATATTAATATTACTTATGATGAATTAGTGCTA
ATGATGCAACGAGTTTTTCAGGGGAAAACCTCTGCGTAATGTTGAAGTAACAATAAAGTAT
AAAGATGCAGATGACGATCTTATAACAATTTTTGATAGTTCTGATCTTTCCTTTGCAATT
CAGTGTAGTAGGACACTGAAATTGACATTATTTGTTAATGGCCAACGAAGACCCCTTGAA
TCAAGTCAGGTGAAATATCTCTGTGAGAACTGACAGAACTTTGAAATAAAGTGAATCAC
TTATTGGATAGCTTGGAACCACTGGAAAACAGGACCTTCCACTAATATTCTGAAAAT
GTTACTGTGAATGGTAGGGAAGAAAAGCCTGCTTCTCGGATTCTTCTGGAAAACAGTCT
ACTCAGGTTATGGCAGCAAGTATGTCAGCTTTTGACCCTTTTAAAAAACCAAGATGAAAT
AAAAATAATGTTACGTCGGCATTGCGCTTAACAGATGATCAGGTTTCAGGGCAACCCAG
TGCTCCTGCAGAAGACTGTTTCAGGAACATCTGACAGCATTGCCGCCTCCTCCTCAGTAGC
AGCTCACCCACCAGGAGTTTCAGCCACAGCAACCAACATATACAGAAGCTAAGATACAAGC
AGGTGAGACTGAAAGTCAGCTGTATCAATAGTACCAGCAACAGGCTAGCTATGGTGACC
GTGTCTGCGGGCTCTACCTCAGCAGCCTCAACAGTATGGTATTTCAGTATTCAAAAAGCCA
GAGTCAGCAGACTGGACTCCAAACAACCTCAGCAGTTCCAAGGATATGGCCAGCAACCAA
CTACCCAGGCACCAGCTCCTGCCTTTTTGGTCAGCCTCAACAACCTGCCTGCTCAGCTGCC
ACACAGTACCAGGCAAGCAATTATCCTGCACAAATTTATACTACCCAACTTTTTCAGCCT
ACTAATTATACTGTGGCCCTGCCTCTCAACCTAGAATGGCTCCAAGCCAACCTGGGGCC
TATAGACCAAGATCAAGTTTTACTTCACTTCTGTAAGTAGCATGACCCCTCCTCCAACCT
GGGCCTAATCCTTATATGTCCTCCCTTTGGTCAGGGCTATACCAAACCTGGACCTGGTTA
TCGATAA

Gene 870. >OTTHUMT00006006424 cDNA sequence

GCGAGGACGGCGGCCACGGAAGCGGCCAAGGGGCGGTGGCGCAGAGAGGGGTGCGGAGC
GGGCGGAAGAGGCGTCTGTGTGCGAGCTTGGTCTCAGAGGAGCATCGCTGGGAACAACGA
CTATCGTCTATTCCACAAGATGAGTAACAGCCACCCTCTTCGCCCCCTTTACTGCAGTGGG
GGAAATTGATCATGTGCACATTTTGTCTGAACATATTGGTGCCTTGTGATTGGGGAAGA
ATATGGCGACGTACATTTCGTGGTGGAAAAGAAACGTTTTCTGCCCACAGGGTAATTTT
AGCAGCCAGGTGCCAATATTTTCGAGCATTATTATATGGTGGAATGCGAGAGTCTCAGCC
TGAAGCAGAAATTCCTCTCAAGA

Gene 871. >OTTHUMT00006006425 cDNA sequence

AGGAGCATCGCTGGGCTCGTCTCAATTTGGCCCTGCTGTATTTCAAGTGCTCGGTAGCCA
CATGTGGCAAGTGGCCATCACTGTGGCCATTGCAGCTCCAAAGGGACAGGAGAGTTGATG
GAAATTAGACACTGCATTCTACAGCCTCATGAGCCCAAGAGAGCAAACCTTGGTTTGCTG
AAAATCAGCAGATAAGGCAATTGAAAGGGAAGAAGAAACAACGACTATCGTCTATTCCACA
AGATGAGTAACAGCCACCCTCTTCGCCCCCTTTACTGCAGTGGGGGAAATTGATCATGTGC
ACATTTTGTCTGAACATATTGGTGCCTTGTGATTGGGGAAGAATATGGCGACGTACAT
TCGTGGTGGAAAAGAAACGTTTTCTGCCCCACAGGGTAATTTTAGCAGCCAGGTGCCAAT
ATTTTCGAGCATTATTATATGGTGAATGCGAGAGTCTCAGCCTGAAGCAGAAATTCCTC
TCCAAGACACCACTGCAGAAGCATTACAATGCTACTCAAATATATCTACACTGGGCGGG
CAACGCTGACAGATGAGAAGGAGGAGGTGCTGCTGGACTTTTTGAGCCTGGCTCATAAAT
ATGGATTTCCAGAGCTAGAGGATTCTACCTCTGAGTATCTCTGCACCATACTTAACATTC
AGAATGTCTGCATGACTTTTGATGTTGCCAGTCTCTACTCACTTCCCAAGTTAACTTGTA

FIGURE 1 (CONT'D)

TGTGCTGCATGTTTATGGATAGGAATGCTCAGGAAGTCCTCTCAAGTGAAGGTTTCCTCT
 CCCTTTCTAAGACAGCACTTTTAAACATCGTGTTAAGAGACTCATTTGCAGCTCCCGAAA
 AAGATATTTTCTAGCCTTATTAACTGGTGTAAGCACAAATCAAAGGAGAATCATGCTG
 AAATCATGCAGGCTGTGCGTTTACCTCTCATGAGCCTCACAGAGCTTCTGAATGTTGTGA
 GGCCTTCAGGACTGCTGTCTCCTGATGCCATCCTGGATGCCATTAAAGTGCATCTGAGA
 GCCGGGATATGGACCTCAATTATAGAGGCATGCTCATACCAGAAGAAAACATTGCAACTA
 TGAAGTATGGAGCCCAAGTTGTAAAGGGGGAGCTGAAATCAGCCTTATTAGATGGTGATA
 CTCAAATTTATGATTTGGATCATGGATTTTCAAGGCACCCAATTGATGATGACTGCCGTT
 CCGGCATCGAGATTAAGCTAGGTGAGCCATCCATTATCAATCACATACGGATACTCTTGT
 GGGACCGAGATAGCCGGTCTTACTCATACTTCATTGAAGTGTCAATGGATGAACTTGATT
 GGGTCAGAGTGATAGATCATTACAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTC
 CAGCCCCTGTCTGCAGGTATATTGCAATTGTTGGGACTCACAACACAGTGAACAAGATTT
 TTCACATTGTGGCTTTTGAATGTATGTTTACAAACAAAACCTTCACTCTTGAGAAGGGGC
 TGATAGTTCCCATGGAGAATGTTGCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAG
 TCAGTCGGAGCCGAAATGCCTTGCTGAATGGGGACACTAAGAATTATGACTGGGATTCTG
 GCTACACATGTCAACAGCTAGGAAGTGGTGCGATTGTGGTTTCAAGTGGCACAACCGTACA
 TGATTGGGTCAATACGGTTACTACTTTGGGATTGTGATGATCGAAGCTATAGCTACTACG
 TTGAGGTTTCTACCAACCAGCAACAGTGGACCATGGTTGCTGACAGAACTAAAGTCTCCT
 GCAAGTCCTGGCAGTCAGTAACTTTTGAAGGCAGCCTGCCTCCTTCATCCGTATCGTTG
 GGACACACAACACAGCAAATGAGGTGTTCCACTGTGTCCACTTTGAGTGTCCAGAGCAGC
 AGAGCAGCCAGAAGGAGGAAAATAGTGAGGAATCGGGGACAGGGGACACCAGCCTGGCCG
 GTCAGCAGCTCGACTCCCATGCGCTGCGGGCGCCTAGTGGCAGCTCACTACCCTCCAGCC
 CAGGCTCCAACCTCACGCTCCCCCAACCGGCAGCACCAATAAAGGAGGCAGCGGGCCTGGT
 GTGACTTGGTGGGCTCGGGCAACCGGCAGGAAACGGTCTCCTCCCTGAGCAGGGGTCTCTG
 TTGACTGCCCCCACCTCTGCCCCCTTCCAGGGAGGAGCCGACCTAGCTGCAAAAGCAGAC
 ACCGAACAGGTTTTCTCCCAAGGACAGAAAGGGGCTGCTTTGTTCTTCTCAATTTATCCA
 AATCAGGCAGGTCTCAAGGGGGAGAAAATGGGTCTTCAATCTTCATCAAGTCCACCATT
 ACACCTTACCTCTCTAATCTAGCCCAGGCGCAGGGAAACAGGAGGAAGTCATAGACAGGCC
 TGTGTTGGAATACAAAAATGGCAGCAAAACACTCAGGCGGAGGAGAAAGCCATTGGGCCT
 TTGCTACCTGGAGGCACCTTTAGGAATGGGCCTCCATAGAGTGTTCATTCTGCTGGAAT
 ACATTGCCCTGGCAACTAAATGATTTTTTTATTTGTTTTAGTTATTCTCCACTCAGTGAAT
 CATAGGTGTTCCGGATCTATTTGAAATGCTCAAACAGCAAATCACTAGTTTTTAATCCCTT
 TTGATGCTATAATTTTCTTCTTGGTTTTTGAACGGTTGAGCTTGCGGGGACAGAGACCC
 ATCGTGCATGTCTCTAAATGAGACACGGATGCAGCTCATCCTGGCACTTGGGCCACAGA
 GGAAGTGCCACAAATGCACACAAGCAAATCAACCTGTGGACACTGGAGTTAATAGTCACT
 CGTGTGGCTGAGTTACTCACCTGTCTTCTGACATGGATCCAGCCTTTAAGCTTGGGAG
 GCTGACAAGGAAATAGTTACTATGCCCCGCTGCTAATTCAGTGTTCGGAAGTCCATGTAGA
 TAAACATATACCGAGTTCTGGCGTGGCCAAACCTGCGGGGACTGCCGTGGCTTAGCTGC
 CCCTCCAGTTGTGTTTATCGAAGCATTGGAGAGGCAGCCACCTGCCCATCAGCGTCAGGA
 ACGCAGAACTGGGACTCCGTGCTTCCCCCACACACAGTACTCAACTGGGGACTGAAAAA
 TAGCAGTTCCAAGAAGCTTTTCTCCTAATCCTCATCAAAGGACCTCATTTGACGATGGT
 GGCTTGATGTGGCTCCGTCTCCTACTTAGTGATTTCCATTCCAGTGTGCTGCCCTGGG
 TAACTGCGCACAAATGCTGCTGCCCTCCGCTGTCCCCAGAGCTCCGGCCTCTGTGCGCA
 TCAGCATCAGCCTGGGAGTCTCCCCAGGACGGCATGGCACGTGAGCAGCACTGCAGTCCT
 TGGGTCTTCGGCGCCAACCTGCAACCCTGATCAAAGGAGGGTGAGGGCGTGGGAGTTTCC
 TTTCAGGTGTGTCAAAGACATATCAGCTGCGCTCTAGAAAGAGCCAACGGGTGAGCCGCT
 TCCTCCTAGTTTAACTTGATTTTGAGTGATTTGTCCATATGGAAATAGTAGGCTCCAGCT
 GCAGGGCTGAGCTGCTTCTATCCCCTCAGCTCTGATCTCTGCCACTTCCCTGTTGTGTG
 GGAGAGTGGAACACTCCTGGGATGCCAGGCATTTTATAATGGGAGGAGGCTCCTGTAAGG
 AACGGTGGGCGCCCGCTCACAGTGGGGGGCCCTCCAGCATGGTTGCTGACTCTGTGAGCC
 CCCAGCCCCGGGTGCCAATTAGCCAGAGAGCTCCTGCACACACAGCACTTCTTCCCCA
 GTGTGTTTTCTACCCAGATGGGGACAAAGGAGCCAGACAGTCATATCAAGGGCAGAGTTC
 AAACATTTTGAATGAGCCATTACATGCTTCTTTTAAACATGGGCATCACCTGCCCAG
 AGGCCCTTGGCCTGAAGCAGCATGCTGCTGACCTTGGGAAGAGAGGGTGGGCTGGTGGG

FIGURE 1 (CONT'D)

GTGCTGGAGGAGCTGCCCCGGCCCTGCATCTGCAACCCCTCCAGTCCCCTGCCCACAGAGCA
 CGCAGAGCCCTCCTGTGCTCCGGGAACGAGATAGCAGCTTGGCAGCTCGGCCTCGCATCT
 GAAAAGGAATACGCTGCAAAGCCTCGGCCCTAGACCCACATCTGCAGCTCCCTGGCCTGT
 GGCGGTTCTTTCTTCGGGGCATGCCCTTCCAGATCTCTGTCCCTCCTGTCTTCTAGCAC
 TTTAAAGATGCCCCCTTATCATCAGATAAAGAGAAGTATGGGGACGATGGGGTGGCACTAA
 CAGTAGATGTCAATTGGTGAGGACTGATGGCAAAGTCTCATTCCCTCACAGCCGCGCTGCC
 AGCTCGCCTCCCCCTCGCTTTGCTGGGAGCCTGCCCTGGACTCCAAAAGGACACGGGTTC
 ACCTCCTTTCCAGGCTGGAGGGGTACTGCCCTTCCCTGAGGGGCCTTCTGACTGGGGCA
 GGAACCTCTTTTCGTGTGTCCAGCTGGGCCTGGAGGCCAAGTCAAGGTGTGTACACCACA
 CACCAGGGCAAGGACCTCATCTCCAGGGAACAGGGACAAGTGAGTGGCTACCAGAAAGTC
 CCCGGGCAGCCTGGAGTTCCCCAGAGCCTGGCTGGTCTACAGAGCACTTCTCCCCTGGG
 CCACCAGGACCAAAGCGACCTAAACACTTGAAGCTAAAAGCAAGTGCTGATGATGGGATG
 GGCTGGCACGTGGCTGGGAGGGCTCCTGGGCACCACAGAGCCCTCAGCCAGCAGAGAGT
 GGAGGCTCAGTCCGTGGGGAGCGGGGGTTGTGAAGGAGACATGGCCAAGCCCCTGGTCCG
 GGAGATAAGCTCCCCATGCCAGGCCAGCCCCAGGGGCAACAAGCCAACATGGAGAGAG
 GTGGCAGGTGAGGCTGACAGGTGGGTGCCTGTGGCCTGGGCCCATGAGGGCAATGGTCCT
 CAGTAACCAATGGAAAGGACACAAGGGCGCCATGGTCACCACCACCCAGGCAAAGAAATG
 GGAGGTGGCCAGCACCCCCACCCCTTCACTTTTTATTATTATTATTATTATTATTATT
 ATTGGAGAGTAGAAAGGCAACTTCATT
 GGAGCTTTTGGGGAAAAAAGCCTTCAAAGTCACCTTCTGGCAGCTCTGGGGAGGGTCATT
 TGGGGTGGACTGAGAGTGTAGGGCAGGTAGGGTGTGTGCTGGGCAGCAGCTGTGTCCATG
 CAGCCAGCACCCAGCAGGGCAGTCTCACAGGAGCCGTTGTGAGCACTTTGGACTTGAAGC
 AGCTATGAACCACCCCCCGCCCCACCGTCTCTCCCTCTCACACACACACACACACAC
 ACACACACACACACACACACACACACACACCCGTTTTACCATTTTCTCAGTGCTTTTTCTGC
 TTTTATTCTTTTGTATTTTAGTTAGAAGCACAAGCCATGATGGATGTGGGACTCTTCTCAA
 TTGCTCTTTAAATTGTCACTTTTTAAATCCTATTAAATGAAGTGTGATTCTTGACAAAT
 ACATTAAAAGTGTTTTATTCTAGAAAGAGTTGGGAAAAGAAATTATTTTCAGCAAGAGTA
 GGATGTTTGTAAACTGATTCTTGGC

Gene 872. >OTTHUMT00006006426 cDNA sequence

GTATATTGCAATTGTTGGGACTCACAACACAGTGAACAAGATTTTTTACATTGTGGCTTT
 TGAATGTATGTTTACAAACAAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGA
 GAATGTTGCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAA
 TGCCTTGCTGAATGGGGACACTAAGAATTATGACTGGGATTCTGGCTACACATGTACCA
 GCTAGGAAGTGGTGCGATTGTGGTTTCACTTGGCACAACCGTACATGATTGGGTCAATACG
 GTTACTACTTTGGGATTGTGATGATCGAAGCTATAGCTACTACGTTGAGGTTTCTACCAA
 CCAGCAACAGTGGACCATGGTTGCTGACAGAACTAAAGTCTCCTGCAAGTCCTGGCAGTC
 AGTAACTTTTTGAAAGGCAGCCTGCCTCCTTCATCCGTATCGTTGGGACACACAACACAGC
 AAATGAGGTGTTCCACTGTGTCCACTTTGAGTGTCCAGAGCAGCAGAGCAGCCAGAAGGA
 GGAAAATAGTGAGGAATCGGGGACAGGGGACACCAGCCTGGCCGGTCAGCAGCTCGACTC
 CCATGCGCTGCGGGCGCCTAGTGGCAGCTCACTACCCTCCAGCCAGGCTCCAACCTCAGC
 CTCCCCCAACCGGCAGCACCAATAAAGGAGGCAGCGGGCCTGGTGTGACTTGG

Gene 873. >OTTHUMT00006006422 cDNA sequence

AGATAAGGAATTGTATAGGAGGAACTTCATAGTAAACATTGAACCTCTGTGCTTGTCTC
 CTTGTTGAAGTTGGGGGTTTATGTTTATTGTTTCCAAGGGAGCCTCATCAAAACCACTTTT
 AAAGCATTGAGAATCCAAATAAATACCATGGATCATAACAGGATTGGGGATAAGTCTTGAG
 GTCTCCCCGAGAAGGAGAAGTTCTTTAATTTGGTAATTTTAGGGTAATGGTTGGATGCTC
 TCTGGATTAATGGAAACCTTCAGGGGTACTTTTAGGCAGAGTATAACCCAGTGAAGAGAG
 CATTATTATATGGTGAATGCGAGAGTCTCAGCCTGAAGCAGAAATTCCTCTCCAAGACA
 CCACTGCAGAAGCATTCACAATGCTACTCAAATATATCTACACTGGGCGGGCAACGCTGA
 CAGATGAGAAGGAGGAGGTGCTGCTGGACTTTTTGAGCCTGGCTCATAAATATGGATTTT
 CAGAGCTAGAGGATTCTACCTCTGAGTATCTCTGCACCATACTTAACATTTCAGAATGTCT
 GCATGACTTTTGTATGTTGCCAGTCTCTACTCACTTCCCAAGTTAACTTGTATGTGCTGCA
 TGTATTATGGATAGGAATGCTCAGGAAGTCCTCTCAAGTGAAGGTTTCTCTCCCTTTCTA
 AGACAGCACTTTTAAACATCGTGTAAAGAGACTCATTTGCAGCTCCCGAAAAGATATTT

FIGURE 1 (CONT'D)

TCCTAGCCTTATTAAACTGGTGTAAAGCACAAATTCAAAGGAGAATCATGCTGAAATCATGC
AGGCTGTGCGTTTACCTCTCATGAGCCTCACAGAGCTTCTGAATGTTGTGAGGCCTTCAG
GACTGCTGTCTCCTGATGCCATCCTGGATGCCATTAAAGTGCGATCTGAGAGCCGGGATA
TGGACCTCAATTATAGAGGCATGCTCATACCAGAAGAAAACATTGCAACTATGAAGTATG
GAGCCCAAGTTGTAAAGGGGGAGCTGAAATCAGCCTTATTAGATGGTGATACTCAAAATT
ATGATTTGGATCATGGATTTTCAAGGCACCCAATTGATGATGACTGCCGTTCCGGCATCG
AGATTAAGCTAGGTGAGCCATCCATTATCAATCACATACGGATACTCTTGTGGGACCGAG
ATAGCCGGTCTTACTCATACTTCATTGAAGTGTCAATGGATGAACTTGATTGGGTGAGAG
TGATAGATCATTACAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTCCAGCCCGTG
TCTGCAG

Gene 874. >OTTHUMT00006006423 cDNA sequence

CAGCCATCCATTATCAATCACATACGGATACTCTTGTGGGACCGAGATAGCCGGTCTTAC
TCATACTTCATTGAAGTGTCAATGGATGAACTTGATTGGGTGAGAGTGATAGATCATTCA
CAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTCCAGCCCGTGTCTGCAGGTATATT
CGAATTGTTGGGACTCACAACACAGTGAACAAGATTTTTTCAATTGTGGCTTTTGAATGT
ATGTTTACAAACAAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGAGAATGTT
GCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAATGCCTTG
CTGAATGGGGACACTAAGAATTATGACTGGGATTCTGGCTACACATGTCAACAGCTAGGA
AGTGGTGCGATTGTGGTTTCACTTGGCACAACCGTACATGATTGG

Gene 875. >OTTHUMT00006006432 cDNA sequence

AGTGGCTCAGAGTTAGAGGGTAGGTAGGTCTTGCATTTTCGGCACAGTCAGCAAGGATATT
CAGGAACTCCCTTGCTCCCATAGCTTATATTGTATAATCACTGAGTAATGTCTATTAAT
ATGGATGGACCATGGTTTATTTAATTTGTGATTTTTTATATTCACTTCTGTTTTTTTTTT
CAGTTGACAGACCTTTTCACTCCTCATTCCACATTGATCTGCTCTACATTCAAAGACTGAC
TTTTCACACCACGTATACGCGGGAATCCTCCCAAGCCCTGGCACCGCACTCCAAATGTCC
ATCTCCAGGAACCCGCCCTTTCAGTGCCTGGGGTCCCCCTAAACAATGTTTCAGTCCTCGGG
CTCGGTGGGTGCATCCTTTATTGGGGAGCGCGGGGGCTGC

Gene 876. >OTTHUMT00006006434 cDNA sequence

CTAGTTAAGGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCTTTGGGTCC
CGTCGTCTGTGATACTGCAGCGCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTC
ACGGACGAGGCCGCCCTCAGTTGCTGCTCCGACGCGGACCCCACTACCAAGGATTTTCTA
TTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTGGATTTTTTATACTAGA
GTTCTTGGAAATGACGCTAATCCAAAAATGTGATTTTCCCATTTATGAAGTTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAAATGACATCCCTAAAGAAAAAGATGAAAAAATAGCCTGG
GCGCTCTCCAGAAAAGCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGAG
ACCCAGAGTTACCACAATGGCAATTCAGACCTTCGAGGATTCGGTCATATTGGAATTGCT
GTTCTGATGTATACAGTGCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTGTGAAG
AAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTTGAATCCTAACAAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCT
TTGAGATTTTCAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCT
AGGACTGATGGATCACTGTCCCGATTCAAATATTCTTCAGTCCATTTCCCTTCTCTATT
TCAGCTGTTCTTTTACCTAACTGTTTCACTCATTCTGGTTTTTCAAGCAGTGCTTTATCT
CATGTCCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCCT
TCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCTGCCTT
TGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTT
CAATTCCTCAGAAACAACCTTTTTTCAACCGGAAAGGAAAGAACTAGTGTTCTTTTTCAG
TAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAGAGCAATTCAAATCAT
GCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTTGGGAAAGGGGAGGAGGAAGGAAATGATATGGTACCCAG
ACACTGGGCTAGGCTGCACTTTATCTCATTTAATACTCCAGCTGTGATGTGAGAAAGA
AAGCAGGCTAGGCATGTGAAATCACTTTTATGATTATTAATGGATTTAAGAGGGCATCA
ATCAGCTCAACTCAAGATTTTATAATCATTTTTTAGTATTTAGATTGTGCCTCAAAGTTGT
AGTACCTCACAACTCCACTGGTTTCTGTTGTAAAAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGTCTTTA

FIGURE 1 (CONT'D)

GTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATTTCTCA
TAAAGAGTCTTCCCTATCCCAAGGTCTTCATGATGCCAGTAGCCATATATGATAAATTAT
GTTCAAGTGATAAAGTATATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGATTACACA
TTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAGTCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTG
GAAAGGCCATGCCAACCGTGCTTGTACTGCTAGAGCACTTTATGTTTCCTTTTTGGGTG
AAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAAAATGA
AACTTCAAATAAGA

Gene 877. >OTTHUMT00006006435 cDNA sequence

GGCAGTTTTCATCAATAGAATGGAGATGTTTACACCTAGCCCATGGAGCTGTTTTAAGGGT
TTAAATGAAATATAAAGTACTTAGCACAAATAAATGAGCATTATTATTATTCTTATTATTG
TTCTTGTCCAGTACCTGTATTTACTGTCTCTTTAGTCTCGTTAAATCATACTTTGGCCA
TTTGTCTTTCTATAGTTGAAAACCTTAATATTTTTGTAGCAGGGGTTAGGCCAATTATGT
AAAGTAGCATATAAACGTGGTAAGATTTCAAAGATGTTACTTGCTTTTCAAGATATCTAT
TCCCTAGGACATTGTAGCTATGTTTTCTTCTTTTGTAGCAATTGGGGCACTGAAGATG
ATGAGACCCAGAGTTACCACAATGGCAATTGAGACCTCGAGGATTGGTTCATATTGGAA
TTGCTGTTCTGTATGATACAGTGCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTG
TGAAGAAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCT
ACTGGATTGAAATTTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATT
CTCCTTTGAGATTTTCAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAG
CATCTAGGACTGATGGATCACTGTCCCGATTCAAATTATTCTTCAGTCCATTTCCCCTTC
CTATTTTCACTGTTCTTTTCACTAACTGTTCACTCATTCTGGTTTTCAAGCAGTGCTT
TATCTCATGTCTTGAATATAGTTGTGTAACTTTATTTTTTAGGTAATAATTAGAACAGT
TCCCTTTCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCT
GCCTTTGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGG
GGTTTCAATTCCTCAGAAACAACCTTTTTTCAACCGGAAAGGAAAGAACTAGTGTTCT
TTCAGTAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTAATCTTGAGAGCAATTCAA
ATCATGCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTA
AAGTTCAAGGACTAACCTTATTTATTTGGGAAAGGGAGGAGGAAGGAAATGATATGGTA
CCCAGACACTGGGCTAGGCTGCAACTTTATCTCATTTAATACTCCCAGCTGTCTATGTGAG
AAAGAAAGCAGGCTAGGCATGTGAAATCACTTTTCACTGATTATTAATGGATTTAAGAGGG
CATCAATCAGCTCAACTCAAGATTTTATAATCATTTTTTAGTATTTAGATTGTGCCTCAA
GTTGTAGTACCTCACAATACCTCCACTGGTTTTCTGTGTGTAACCTTCACTGAGTTTG
ACCATTGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGT
CTTTAGTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATT
TCTCATAAAGAGTCTTCCCTATCCCAAGGTCTTCATGATGCCAGTAGCCATATATGATAA
ATTATGTTTCACTGATACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGAT
TCACATTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAGTCTCTAATGGCTCAGAAA
ATAAAAACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGAC
CTTTGGAAAGGCCATGCCAACCGTGCTTGTACTGCTAGAGCACTTTATGTTTCCTTTTT
GGGTGAAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAA
AATGAACTTCAAATAAGA

Gene 878. >OTTHUMT00006006438 cDNA sequence

ATATCTGAAGCATATTTGACAACAGAAAAAGTTAATGTAATTTTCAAAGGAAAAACGCCA
ACTTTTTTCAAAGGAAACAGCAACTGGAGAGCAGATTTGCAAACAGAAAGCAACTC
ATGAATACAAATTGCCTGGAAAGCATTATTACAAACAGAAGCTCTGCAAGATATACCGGA
AATTGACAGTGGCATCGAATTCAGCAAGGAAGTTTCTAAGGACACCAACAGACACCA
GCAGAAGACAGCCTTGCAATTTACAACAAACCATTTGATCCACAACAAACCATTTGATCCACA
CTTTCAAATCATTTGAGGTGAAGCATAGAGAACTGGAGTGGAGACGGCTCTGGCAAATCC
AAACAATATCAAAGCACTCTCATACTGAAACCCACAGTGCTGAACCAACAGCTGAGATG
TAAATATTTTCAAAAATCTTCTTCACTCTATAGTATTTTCACTGAGAGTGATGATT
TAAGTTGCAAGCACTGTATAGATGATGGGATTGAGAGATGAACACATGGAAATGGACTT
TATGTTCTCTAATGTCAAAAGAAAGAGTGATTATGAAGAAGACCCAGATTCCCACCTAT
TAATCTGAGCTTTGAATCTTTACTTTGCTGGGTCCACCGGATTTTTTCTCCACTCAGCC

FIGURE 1 (CONT'D)

CATCGATGAGAGTGGAGGCGGCCTGCATCTTTTTCCGGCACGTATCAGCGTCATTAAGCA
AATCCTGCAGCCATAATGGGAGAATGTCTCAA

Gene 879. >OTTHUMT00006006439 cDNA sequence

TGAAGCCCATGAGCCACTAGAAGCCACATGTTCTGCCATGTGGAGAAGAATGAGAGAGTA
CATCCTCAAATTGAGGTGTGGCATGATGATTTGGCTGCCAGAGGAGAACCTGTCTTTCC
CATCTAAAGTGGGAGGTCAAGCCAAGTAGAGGGAAACAGCAACTGGAGAGCAGATTTGCA
AACCAGAAAAGCAACTCATGAATACAAATTGCCTGGAAAGCATTTATTACAACAGAAGCT
CTGCAAGATATACCGGAAATTGACAGTGGCATCGAATTCAGCAAGGAAGTTTTCTAAG
GACACCAACAGACACCAGCAGAAGACAGCCTTGCAATTTACAACAAACCATTGATCCACAA
CAAACCATTGATCCACACTTTCAAATCATTGAGGTGAAGCATAGAGAACTGGAGTGGAG
ACGGCTCTGGCAAATCCAAACAATATCAAAGCACTCTCATACTGAAAACCCACAGTGCT
GAACCAAGCTGAGATGTAAATATTTTCAAAAATCTTCTTACCCTCTATAGTATTTCA
CCTGAGAGTGCATGATTTAAGTTGCAAGCACTGTATAGATGATGGGATTGAGAGATGAA
CACATGGAAATGGACTTTATGTTCTCTAATGTCAAAAGAAAGAGTGATTATGAAGAAGA
CCCAGATTCCACCTATTAATCTGAGCTTTGAATTCTTTACTTTGCTGGGTCCACCGGAT
TTTTTCTCCACTCAGCCCATCGATGAGAGTGGAGGCGGCCTGCATCTTTTTCCGGCACGT
ATCAGCGTCATTAAGCAAATCCTGCAGCCATAATGGGAGAATGTCTCAA

Gene 880. >OTTHUMT00006006440 cDNA sequence

CTTTCAAGGGCCTGTGCCTGTGGTAACTGTCTATGAGCCAGGTATATCTGAAGCATATTT
GACAACAGAAAAAGTTAATGTAATTTTCAAAGGAAAAACGCCAATTTTTTCAAAGGC
TGGATCCAGCTCTTCATGAATGTCCTCAATGAGAAGGGTTCGGCCCAAGGAAAGGCTGTC
CTCCAAGTGTGTGCGAAAATATTTATGGTTGAGAGATGTCACCTAAACAGAAAGAACTCA
TTGGTCTATCTGTGTTACAAAGAATGTGCCATTGCTAAGGGAAACCGAGAGATTTGTTG
GACAGGTAATCAAGAATTTTAAGGGCAATAGAAGAAGACTTACTTAAAAAATTAAAGTA
ACATACAAAAATTAATTTCTAA

Gene 881. >OTTHUMT00006006444 cDNA sequence

GTTCGCGAGGTGGCAGCGATGGCCAGTCTGAACTCCCCGCCATGGCCGGCGCCCCCGG
CCCGCTGCGCCTTGCGCTGCTGCTGCTCGGGATGGTGGGCAGGGCCGGCCCCCGCCCCA
GGGTGCCACTGTGTCCCTCTGGGAGACGGTGCAGAAATGGCGAGAATACCGACGCCAGTG
CCAGCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTGTTCTGCAACCGGACCTT
CGATGAATACGCCTGCTGGCCAGATGGGGAGCCAGGCTCGTTCTGTAATGTCAGCTGCCC
CTGGTACCTGCCCTGGGCCAGCAGTGTGCCGAGGGCCACGTGTACCGGTTCTGCACAGC
TGAAGGCCTCTGGCTGCAGAAGGACAACTCCAGCCTGCCCTGGAGGGACTTGTCGGAGTG
CGAGGAGTCCAAGCGAGGGGAAAGAAGCTCCCCGGAGGAGCAGCTCCTGTTCTCTACAT
CATCTACACGGTGGGCTACGCACTCTCCTTCTCTGCTCTGGTTATCGCCTCTGCGATCCT
CCTCGGCTTCAGACACCTGCACTGCACCAGGAACCTACATCCACCTGAACCTGTTTGATC
CTTCATCCTGCGAGCATTGTCCGTCTTCATCAAGGACGAGCCCTGAAGTGGATGTATAG
CACAGCCGCCCAGCAGCACCAGTGGGATGGGCTCCTCTCCTACCAGGACTCTCTGAGCTG
CCGCCTGGTGTCTCTGCTCATGCAGTACTGTGTGGCGGCCAATTACTACTGGCTCTTGGT
GGAGGGCGGTGTACCTGTACACACTGCTGGCCTTCTCGGTCTTATCTGAGCAATGGATCTT
CAGGCTCTACGTGAGCATAGGCTGGGGTGTTCCTCTGCTGTTTGTGTTGTTCCCTGGGGCAT
TGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGACCAGGAACCTCCAACATGAACCTACTG
GCTCATTATCCGGCTGCCATTCTCTTTGCCATTGGGGTGAACCTCCTCATCTTTGTTG
GGTCATCTGCATCGTGGTATCCAACTGAAGGCCAATCTCATGTGCAAGACAGACATCAA
ATGCAGACTTGCCAAGTCCACGCTGACACTCATCCCCCTGCTGGGGACTCATGAGGTGAT
CTTTGCCTTTGTGATGGACGAGCAGCCCCGGGGGACCCTGCGCTTCATCAAGCTGTTTAC
AGAGCTCTCCTTCACCTCCTTCAGGGGCTGATGGTGGCCATATTATACTGCTTTGTCAA
CAATGAGGTCCAGCTGGAATTTGGAAGAGCTGGGAGCGCTGGCGGCTTGAGCACTTGCA
CATCCAGAGGGACAGCAGCATGAAGCCCCTCAAGTGTCCCACCAGCAGCCTGAGCAGTGG
AGCCACGGCGGGCAGCAGCATGTACACAGCCACTTGCCAGGCCTCCTGCAGCTGAGACTC
CAGCGCCTGCCCTCCCTGGGGTCTTGTCTGCAGGCCGGGTGGCCAATCCAGGTGGGAGAG
ACACTCCCAGGGACAAGGGAAGGAAGGGACACACACACACACACACACACACACACAC
ACACACATACATCCTGCTTTCCCTCCCCAAACCCATCAGACAGGTAAATGGGCAGTGCCT
CCTGGGACCATGGACACATTTTCTCCTAGGAGAAGCAGCCTCCTAATTTGATCACAGTGG

FIGURE 1 (CONT'D)

CGAGAGGAGAGGAAAAACGATCGCTGTGAAATGAGGAGGATTGCTTCTTGTGAAACCAC
 AGGCCCTTGGGGTTCCCCCAGACAGAGCCGCAAATCAACCCAGACTCAAACCTCAAGGTC
 AACGGCTTATTAGTGAAACTGGGGCTTGCAAGAGGAGGTGGTTCTGAAAGTGGCTCTTCT
 AACCTCAGCCAAACACAGAGCGGGAGTGACGGGAGCCTCCTCTGCTTGCATCACTTGGGG
 TCACCACCCTCCCCTGTCTTCTCTCAAAGGGAAGCTGTTTGTGTGTCTGGGTGCTTATT
 TCCCTCATCTTGGCCCCCTCATCTCACTGCCAGTTTCTTTTTGAGGGGCTTTGTTTGGGC
 CACTGCCAGCAGCTGTTTCTGGAAATGGCTGTAGGTGGTGTGAGAAAGAATGAGCATTG
 AGACGGTGCTCGCTTCTCCTCCAGGTATTTGAGTTGTTTTGGTGCCTGCCTCTGCCATGC
 CCAGAGAATCAGGGCAGGCTTGCCACCGGGGAACCCAGCCCTGGGGTATGAGCTGCCAAG
 TCTATTTTAAAGACGCTCAAGAATCCTCTGGGGTTCATCTAGGGACACGTTAGGAATGTC
 CAGACTGTGGGTGTAGATTACCTGCCACTTCCAGGAGCCCAGAGGGCCAAGAGAGACATT
 GCCTCCACCTCTCCTTGAAATACTTTATCTGTGACCACACGCTGTCTCTTGAGAATTTG
 GATACACTCTCTAGCTTTAGGGGACCATGAAGAGACTCTCTTAGGGAAACCAATAGTCCC
 CATCAGCACCATTGGAGGCAGGCTCCCCCTGCCTTTGAAATTCCCCACTTGGGAGCTTGT
 ATATACTTCACTCACTTTTTCTTTATTGCTGTGAATAGTCTGTGTGCACAATGGGCAATTC
 TGACTTCTCCCATCTAGTGGAATGAGCGAAATCATGGTTGTAGTGATGTTGTTTGGGAG
 AGTGCAGTAGTAATTGATTTGACCCACTCACACTTGGAGCTAATTAAGGTTTGCCCTGCC
 TGCAGCCTCCCCACAAATAATGAACAGCAGAAAGACTGGACGGGGAAACCTATCAATCC
 TGCCCCCAGCCATGGTGAGGAAGCCCCAAGCCATGGTGACACACAGCAGCACTGCAGATA
 GCCAGACACATGGCTATCCTAGAGAGGCTGGCAAGGAGTTCGTGGCTGCAAAAGAAGTTT
 CTGGAGCAAGAGAGAGCTCGCTCTTGGGAGTCAGGACCTCCGGGGAGAGCAGAGGGTTCC
 GACGGATTCTTTATGAGTCAGTCTCTCTCTCCCTTTTAAATGGTGGAACCTCCCCAA
 AACCTTTCCCCAGACACATTCTCCTGTGCCCCCTCAGAGAGGCATGTGATGTGCAAGGAAA
 ATAATAGGATATAAAACACATCAAGTAGAAAATTTCTTATACTTC

Gene 882. >OTTHUMT00006006446 cDNA sequence

GGCCATCAAAATAACTAAACCATGTCAATTTGGAGCAACAAAGCCACTGCGGCCTCCATTT
 GGGCCAAGCTCTGACTGCAATGATGCCTCTGCCCCGACCCGGGCCTCGCTGTGACTGACA
 ATGCCGCTGCATCTTTTCAAGCAGTCATTGATGAGGAAGTATCTACATCCTCCTTCCCACT
 ACCAGATTTTGTCTGGAGAAAAGCAGTTTCTGAAATAATTCTGTGACGAGCTTCTTCCA
 CATTAGGACAAAAATGCTGGAAGCGGCTCAGCCCCAGGGCAGCACATCAGAGACACCATG
 GAACACAGCCATTCTCTGCCGTCTGTCTGGGACCACTTTCTGACCAATATCACCTT
 CTTGAAGGTTCTTCTCTGGTTGGTCTCTGCTGGGACTGTTTGTGGAACCTGGAATTTGGCCT
 GGCATATTTTGTCTCTGCTTCTTCTATTGGATGTACGTCGGGACACGAGGCCCTGAAGA
 GAAGAAAGAGGGAGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAAGCCATCCA
 GGGCACCTGACTGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTGGCAGGGAG
 ATAGGACCCAGCTGTGCTGTCTATGCAGCTAACCTCTGATGTGGTCTTCTCACCATTGGC
 TATGGATTTGATTTCAAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTCTGTGACTG
 CATAGTTTTTCTACCTTCTTTCCCTGATCTTTTGTGCTGCCATTTGATCTTTGATAGTTTTG
 GTGAAACTCTCTAAATACATTCACTGTGGGTCCGACGCAATTTATAAAAATTATGTACT
 CAAGAAGGGAGACCTGTTTGTTCATTTCTCATCTGTTTGGGAGATGATTTTAGAGCACT
 AGAAAGGCACTGGGGAGATTCTCAGCTTAAACATCCAGCAGTTTGAAGTATGATTAGGT
 ACATCAGGGCTGCATTGTCAATGTTCTCTTTAAGTCTTTTAAACATTTATAGCAATTTTTT
 TTTTCCCGGAGAGTTTAGGTTGCAAGTTTTGGGTTTTCTGTTTGTGTTTTGTTTTGCTTCC
 TGCTTTAATTCTTTAATTTTCAAGTCATTACTGGTATTGAAAAATAAAATATCTTTAAAC
 ATCTCCTCTTCAGAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCCACTCTCCTATT
 ATTTTGGCACTACTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGCAGGTGTGG
 GGAGGGATTTCAAGTGGTTATTAAACGGCCAGTTTCAAGCAAGAAGTGTGAGTGTGTACA
 AAGGGGAGGGCTGGAAGTGTAACTCCAGACCCGTTGGCTGCTTGAGTTGTTTCTTATAT
 TCTAAAGCAGCAGTCCCTAACCTTTTTTGGCACCAGGGACCAGTTTTGTGGAACACAGTTT
 TTCCATGGACGGGGTGGTGGTGGAGGATGAAACTTCCACCTCAGATCATCAGGCATTAGA
 GTCTCATAAGGAGCACGCAACCTAGATCCCTCGCATGCGCAGTTTCAATACGGTTCTAA
 GGGCTTTAGAGTAAGCAGCTTTTTTCACTGTGGGCCTCTGGTGAGAAATCTGTAAATTG
 TGATAATCAGGCTGGATTTTAAATGCTGCTTTTCCAGTACAATGTTAGAGTTTGGGTTTCAT
 TAAATTAGGCAAACTCCCATTTGGGTTAGGGCTTCTCTCATTCCATTTTGTGGCTAACCT

FIGURE 1 (CONT'D)

TACTGTGTTTTAGCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCCTCACAGCCC
TTTGGCCATTGGGAGTTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATGGTCTGTTC
TATCTCACAGAAAAGTCTTTTCTTCCATGAGTTCTGTCTGAACTGAACATGTAAAAAGTA
TGGGAAACAGATGAATCCCTATTAAACATGAAGTTTTGATTGTATTTAAGAT

Gene 883. >OTTHUMT00006006447 cDNA sequence

GAGTTTCGGGCGGCGCGGAAACGGGCGGGTCTGGCGGCCCAACCCCCTGCTGCCAGTCAG
GGCGCAAAACCCCAGGAGAGAAGGCGGAAGCAGCAGCGACTCTAAAGGCAGCCCCAGGC
TGGCTAAAGCGGTTCTTGGTATGGAAACCTAGGCCCGCGAGTGCCCGGGCCCAGCCCGGC
CTAGTTTCAATTAAAAACAATGTCTAACCCATGCAATGAACTTTTACTGTATGTCTCAT
TTCCAAAGGAATGAGATCATTGAGGTGGACCCAGAGAACTGAATTGAGAGAAAACTTC
CATTATTGAGAACCCAAACGCTGATTGCCAGACAAAAGGATGAGAGGAAATGCTGGACCT
CCAGTTTCTTGTAAATTGCTCTGTTTTTCCATAAGGGACTCTGCCTTAAGCTCATTTTCA
TTGACTTATCATTTCTGGGTTTGTCTGCTGTGAAAATTCTCATTTAATTTTTTTTCTTC
AGATTCTGCCTCTAGTTTAAAAAGAAAAAGTCTAATTTACAATTCATGTCAGACAATTT
TGATGGCACACTGTGGCCTGTGAGAGATTTCTTTAGCATTCTATTTTTTTTAAATTATTTT
TAATTTTTTGTTTTTTTAATTGAAACAGCTTTATTGAAATAAGGTTTACATACTACAGAAT
TTATCTCTTTTAAACATACAGTTCAAAGATTTTTAGTAAATTTATTGAGTCATGCAACCAT
CACTGCAACTTTAGAACGTCTCTATCACTCCAAGAAGACCCCTCTTGACATTAGCAGTT
ACTACCCATTTCCAACCCAGCCCCGCACAAATGTCAGTCTGCTTTCTATCTATA

Gene 884. >OTTHUMT00006006448 cDNA sequence

CGCAGGCGCACGGCGGCCGCGCGGGCCGAGCGGAGGCAACTGCTGTGCGGCCTGCGGGC
GCGCGCTCCCTTATCGGCCAACGGACGCGAGGCGCGGCCATGGAACAGCGGTTAGCTGA
GTTTCGGGCGGCGCGGAAACGGGCGGGTCTGGCGGCCCAACCCCCTGCTGCCAGTCAGGG
CGCACAAACCCCAGGAGAGAAGGCGGAAGCAGCAGCGACTCTAAAGGCAGCCCCAGGCTG
GCTAAAGCGGTTCTTGGTATGGAAACCTAGGCCCGCGAGTGCCCGGGCCCAGCCCGGCCT
AGTTTCAAGGAGCGGCTCAGCCCCAGGGCAGCACATCAGAGACACCATGGAACACAGCCAT
TCCTCTGCCGTGCTGCTGGGACCACTCTTTCTGACCAATATCACCTTCTTGAAGGTTCT
TCTCTGGTTGGTCTGCTGGGACTGTTTGTGGAACCTGGAATTTGGCCTGGCATATTTTGT
CCTGTCTTGTCTATTGGATGTACGTGCGGACACGAGGCCCTGAAGAGAAGAAAGAGGG
AGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAAGCCATCCAGGGCACCTGAC
TGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTGGCAGGGAGATAGGACCCAGC
TGTGCTGTCTATGCAGCTAACCTCTGATGTGGTCTTCTCACCATTGGCTATGGATTTGAT
TTCAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTCTGTGACTGCATAGTTTTTCT
ACCTTCTTTCCCTGATCTTTTGTGCTGCCATTTGATCTTTGATAGTTTTGGTGAAACTCTCT
AAAATACATTCACTGTGGGTCCGACGCAATTTATAAAAATTATGTAATCAAGAAGGGAGA
CCTGTTTGTTCATTTCTCATCTGTTTGGGAGATGATTTTAGAGCACTAGAAAGGCACTG
GGGAGATTCTCAGCTTAAACATCCAGCAGTTTGAAGTATGATTAGGTACATCAGGGCTG
CATTGTCAATGTTCTCTTTAAGTCTTTTAAACATTTATAGCAATTTTTTTTTTCCCGGAGA
GTTTAGGTTGCAAGTTTGGGTTTCTTGTGTTTTGTTTTGCTTCTGCTTTAATTCT
TTAATTTTCACTCATTACTGGTATTGAAAAATAAAATATCTTTAAACATCTCCTCTTCA
GAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCCACTCTCCTATTATTTTGCCACTA
CTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGCAGGTGTGGGGAGGGATTTCA
CAAGTGGTTATTAACGGCCAGTTTCAAGCAAGAGTGTGAGTGTGTACAAAGGGGAGGGCT
GGAAGTGTAACTCCAGACCCGTTGGCTGCTTGAGTTGTTTCTTATATTCTAAAGCAGCA
GTCCCTAACCTTTTTTGGCACCAGGGACAGTTTTTGTGGAACACAGTTTTTCCATGGACGG
GGTGGTGGTGGAGGATGAAACTTCCACCTCAGATCATCAGGCATTAGAGTCTCATAAGGA
GCACGCAACCTAGATCCCTCGCATGCGCAGTTTCAATAACGGTTCTAAGGGCTTTAGAGT
AAGCAGCTTTTTTCACTGTGGGCCTCTGGTGAGAAATTCTGTAAATTGTGATAATCAGGC
TGGATTTTAAATGCTGCTTTTTCCAGTACAATGTTAGAGTTTGGGTTTCAATAAATTAGGCA
AACTCCCATTTGGGTTAGGGCTTCTCTCATTCCATTTTGTGGCTAACCTTACTGTGTTTCA
GCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCCTCACAGCCCTTTGGCCATTGG
GAGTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATGGTCTGTTCTATCTCACAGAA
AAGTCTTTTCTTCCATGAGTTCTGTCTGAACTGAACATGTAAAAAGTATGGGAAACAGAT
GAATCCCTATTAAACATGAAGTTTTGATTGTATTTAAGAT

FIGURE 1 (CONT'D)

Gene 885. >OTTHUMT00006006452 cDNA sequence

GACAAGGAGTGGTGTCTCCATCACCAAGTCACCTTGCCAGGTCAAGGACATGAAGATCAAA
TCCCTGAAGGTCTATCTCTTCTCTGTCCATCAAGGAGTTTGAGGTCACTGACTTCCTC
CTGGGGGTGCCCCCTCAAGGACAAGGTTCTGAAGCTCATGTTTGTGCAAAAGCAGCCCAAG
GCTGGCCGGCGGATCAGGTTCAAAGTGATTGTCAACATAAGGGACTGCAATGATAACGTC
AGTCTGGGTGTTGAGTGGCCCAAGGAGTTACTCATTGCTGTCTGCAGGACCAACATCCTC
TCCATCATCCTGGTGTAGGGTGACTACCAGGGGACAAGGTCAGCAAACCCACACAGTGC
TCTGCATGGTGACACAATGCTGC

Gene 886. >OTTHUMT00006006454 cDNA sequence

ATGAACACGACTGCTTTACATTTGGCCTGTGCCAATGGCCATGTGGAAGTGGTCACTCTC
CAGGTGAACTGAAAGTGCCAGACTGACATTGGTGACAAATGAAACAGGATGCCTTTGATG
AAGGCTGTACATTGCCAAGAAGAGATTTGTGTCTCATCTCTGCTAGAATGTGGCACCAC
CCAGATCTTATGGATGTCTATAGCAACAATGCACTACACTATGCTGTGTATAATGAGAAT
ACACTACTGGCAGAAAACTGCCCTCACACCATGTGAATACTGAAGTGCTGAACAAGGAT
ACTGAAGTGCTGAACAAGGATGCAACACACCACTTTTACTTGCTATAGTTTGCAAAACA
CAGCAAAAGGTGGAATTTTGTAGTGAAGAAACAAGCAAATGTACATGCTGTTGATAGGTTGA
AAAGAACAGCTCTCATGCCTGTTGTACATTATGGCTTGTGAGGTATAGTTAGCATTCTTC
TTCAACAAAATATTGTCTTTACTCAAGAGTATGTATGAACAGACTGCAGATTATGCTATT
TCTGGTGGTCTGACAAGCACTCACAACAAATTTTGCAACATTAAAAAAAAGATACTTG
AAAATGGTCTTCAAATGACAACCCAGAAGAAGCATCCAAGAAGAATGCAAGTTTGAAAA
CAGGAGGAGCAAGTGCAAAAGATTCTGGGAGTTCTGAAGCATCTGCATTGAGTATTTAAA
AAAAAAGTGTGTGTTGACTCATGGCCTAAACAGATGATGAAGACTTGACTTTTACTACC
AAGCAGTGTATCCCTGAGAGTGTTCAAAGTCTTTACTTGACCTTCATATAAAAAAGGA
AAAAATATATAGTAAATGGAAGGGGAGAAGGGCCTCTGAAAAACATCCTTCCCTAAAGC
CTACCATGGAAATGAAAGATTCTGTTGTGAAGAAAGCAATAGAAAGGAAGAACGAACAAA
CATCCAAAGCAGAACAGAAGTACAAGTGACATCAGAGGAAGAACAGGAAAAGCTTGAAA
GTGAAAATAAACAGCCACAGGTTGAAGAAGCTAGAAAGAAGCACGAAAGTTAAAAAAA
AAGTATCAAAAAACGTATATGATAGTACATCTGCTGACGATGATGATAAATTAATTCAA
CAAAGAAAGAGTGGAAAACTTACCATCAGCGATTTCTTAGGAAGGAGAACAAAGAGTAT
GCTAGGCCTGCAAGAAAAATGTCAAATGAAAAGAAAAAGGTCAAAAAGCAAACCTCATTTA
GAGATGAACCTGATGACTTAACTCGGCCCTCTGAAACAGCTTCAGAGGATCATGAGAAAC
CTTACCCTCATTTGAAGAAGTTTATGATGCTCATTAAAGCAATATGGAATGGATTGTAATG
ATTCTCGTATCCTAATGGAAGTCCAGAATGCATTTCTTTTCATGTGAAAAGTCACTGGACC
TTAAAAAAATTATCTGTGAACAACTTACACTAGACAATAAGAAATATGAAAAGTGAAGTT
TAGTGTACTGAAGGAGCTATCCAAAACACAAGAAACGAAGTCACAGTTCAATATCAAAAA
GTAGAATGGAACAGGAACTCTACAGTTTGCAGCTTAGAAGAAGATGAGAAGAAATGCTA
ATATGTTATATGAAAAAATTAGGGAAGAGTTAGAAAGGAAAGTGGAGCAACATAGGAAAG
AAGTTGAAGTAAAGAACAGCTTAAACTGACTATCGGATCACTAGAAATAGAATTGAAGG
CTTGAAGAAATACTTTAAGAAAAAAAAGATCTGATGCATGAAAATTGCTTGTGTAAGAG
AGATATTGCCTTTATTGTGTATGTAAGTATACACAATAAAAAATAGGAACCTCGAAAGGG
AAAAAGGACATTGAAATTGTTAAAGAAATGAATGATGACCTTCAAGAGACTATAAACTG
AATGGA AAAACATTAACAAAAAAGTATCCAGTATGGTCAACAGCTTAACGACCTCAAA
ACTGAGAATACAATGCTCAAGTCTAAACTGGAGAAGGAAAATCAAAAACAGGAAAGACTG
GAAGCTGAAGTTGAGTCATTCCATGCTAGACTGGCTGCTGCTATAAGTGAGTGTGATCAA
AGTGTGAAAACAAAAAGAGACCTAGAACTTGCTTTACAGAGAGCACAAGACGTTTCTTTA
CAAGAAAGAAAATGAGTTCTGATATTTCTGAACTAAAAGATAATAATGAGTTTTTAACTG
AGCAACTTTCCGAAGCTCGAATTCAATACCCTAAAAAGTAAACTCCATGACACAAGAAAT
TCTCTCAGAGAAAAGGTTTTGGTTTTATAAAGTGTAACAAAGGACCTAAGCCAAGTAAAT
CCTTTGGAAAGTGGGACTACGTAGAGGAGAGAATATCTCAACTACAACATGAAAATCTGT
TGCTTCAACAACTAGATGGTGTCTATAAGAAAGGGGATAATGAACAAAAGGTAATTAATA
TCCAAGGATGCTGTCTTGAGAGTGAAAAGGAAGGTCTTCTGCTAGAAGGGAAAAATAAGG
AATTAATCAATGAATGCAATCATTTAAAAGACTGTTTCAGTATGAAAAGAGAAAGCAGA
AGGAGAAGTAAGTATCAAAAAGATAAATATTTTCAAACCTCCAGAAGGAAA

Gene 887. >OTTHUMT00006006456 cDNA sequence

FIGURE 1 (CONT'D)

AGCGACGCGTGGAGAAGCGGCCACGTGTCTGCCAGAGTCAAGTCTGTGTTCTTCCCG
CTCCTTACGCATCCGCGGTCCAGGGCGCCCTTTCAGCCCCGCTGGTGTTCGCCCACCCG
GGCCGCGTGAGTGGGGCCCCACGCAGCTCCCCGCACTCCGTGGGCCAACTTGGCCAAGCA
ACTCTGTCCGGGGAGCGGTGCTTTCGGGGGGTGGTACCGGGCACTGCGCATGCGGAGCT
CCAAATTCAAACAGCTGTTTTTCAGAGGCTGGAGGGCGGGCGGACTGGTAGCAGCTGGGGC
TAGGAGAGGCTTTCTCTAGGAGGCGGCCGCTCGGGAGCCATGGTGGACCGGGGCCCTCTG
CTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGGCGGCGATCTTGAAGTGCTGGAG
GAGCCACACTGGAAGGAGGCCAAGAAAACTACTACACACAGAAGCTGCATCTGCTCAAG
GAGTTCCCGTGCCTGGGTGAGGAGGCGCTGGACAAGATCCTAGAGGTGGTATCTGATGCT
GCAGGACAGGGTGTGGCCATCACAGGGAACCAGACCTTCAACAACCTGGAAGTGGCCCAAT
GCAATGATTTTTGCAGCGACCGTCATTACCACCATTTGGATATGGCAATGTGGCTCCCAAG
ACCCCGCCGGTGCCTCTTCTGTGTTTTCTATGGTCTCTTCGGGGTGCCGCTCTGCCTG
ACGTGGATCAGTGCCCTGGGCAAGTTCTTCGGGGGACGTGCCAAGAGACTAGGGCAGTTC
CTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATCACGTGCACAGTCATCTTCATC
GTGTGGGGCGTCTAGTCCACCTGGTGATCCCAACCTTCGTATTATGGTGACTGAGGGG
TGGAACACATCGAGGGCCTCTACTACTCCTTCATCACCATCTCCACCATCGGCTTCGGT
GACTTTGTGGCCGGTGTGAACCCAGCGCCAACTACCACGCCCTGTACCGCTACTTCGTG
GAGCTCTGGATCTACTTGGGGCTGGCCTGGCTGTCCCTTTTTGTCAACTGGAAGGTGAGC
ATGTTTGTGGAAGTCCACAAAGCCATTAAGAAGCGGCGGCGGCGACGGAAGGAGTCCTTT
GAGAGCTCCCCACACTCCCGGAAGGCCCTGCAGGTGAAGGGGAGCACAGCCTCCAAGGAC
GTCAACATCTTCAGCTTTCTTTCCAAGAAGGAAGAGACCTACAACGACCTCATCAAGCAG
ATCGGGAAGAAGGCCATGAAGACAAGCGGGGTGGGGAGACGGGCCCCGGGCCAGGGCTG
GGGCCTCAAGGCGGTGGGCTCCAGCACTGCCCCCTTCCCTGGTGCCCTGGTAGTCTAC
TCCAAGAACCGGGTGGCCACCTTGAAGAGGTGTACAGACACTGAGGAGCAAAGGCCAC
GTATCAAGGTCCCAGATGAGGAGGCTGTGGCACGGGCCCCCTGAAGACAGCTCCCCTGCC
CCCGAGGTGTTTCATGAACAGCTGGACCGCATCAGCGAGGAATGCGAGCCATGGGACGCC
CAGGACTACCACCCACTCATCTTCAGGACGCCAGCATCACCTTCGTGAACACGGAGGCT
GGCCTCTCAGACGAGGAGACCTCCAAGTCTCTGCTAGAGGACAACCTTGGCAGGGGAGGAG
AGCCCCCAGCAGGGGGCTGAAGCCAAGGCGCCCCCTGAACATGGGCGAGTTCCCCTCCTCC
TCCGAGTCCACCTTCACCAGCACTGAGTCTGAGCTCTCTGTGCCTTACGAACAGCTGATG
AATGAGTACAACAAGGCTAACAGCCCCAAGGGCACATGAGGCAGGGCCGGCTCCCCACCC
CACCTTTGATGGCCTCTTCCCCCTCACCTAGGGTGTCCCGAGATGACCGGGACGCCTG
GCCCCCTGGTGGGGGGGCGCCTCGGAAGTGGGAGTGGGGGGCCAGGGGCCTTCTAACCT
TCCATCATCTCTCAGCTAGATGTATGCCCGGGACAGGGCCTCTGTTCTCCAGCTGAACCAT
ACCCTGGCTGTGGGGGCATCTGTCTGAGCTTGGCTGGTGTATCTCACAATGCAAAGACA
TGCTGGCTGGCGGGACAGGTGGGCAGGACTGACCCTGAGGAGGCCTTGCCTGCAGGGTCT
TTGTCTCACCATTTGGTGGAGTATCACACGGTTCTCTGAGGTCTGGGGCCTCAGCTGTTT
AAGTTTACCGGTATTACTGAGCTCGGCATTTGGAGAGGGAGCTCTGAAGTGTCTGGGGAG
GTACCGCTGTGCGTGGGGTCAAGTGTTCCTGATACCACAGCAGGAGCAGGGCCCCGCCGCA
TCCCAGCTGTGGGCCTGCCGGTCAGGTGGGGCACCTACTACAAACCGTAGTGGGGTGGAG
GCTGCTGGAGGTGGGAGTGAGGAGATGAGGGCAGGGTCTCAAACAGTCTGACTCACAGG
GCCTGGAAACAAGTCTATGTGGGCCTGGGGCCTGGGGTCTCATCTCTCTTGTGGTCT
ACTCAGGCCCAGCCAGAGCTGTGTTCCCTGTCTCAGGTCAAGCAGTGGCAGACGCAAGG
CTTTCTGTGGGCCCCCAAGTGGTAGGAGGGAGAGTAGCAGAGCATGGGTACTGGAAGCC
GGGACTGCTAGGGCTGGTGGCCAGGGAGCTGCAAGAGTGAGGCTCAGCTCTGGCTGGTTC
TGCCCTTACCCCTCCTGCCCGCCTGAGAACTGCACACCCTGCCCGCTGGCCCCAGGACCT
GCACTCCCAATCCTGTGTCTTCTCCTTCCCTGTGCCCTGAACAAGGACCTCACTGCCCG
CCTTCCCCCTCCCACCAGCCCCCTTGGGCCAGGCAGGGTGGAGGCCAAATTGCTCTTGGCCC
ACAAATGGGTGATGGTCAGATATGTGAATCAAGCTCCTTTCTCTAGCTAGTGTGTTGATGT
GCACGTGTGTGTGCACAGTGCGTGTGTGCACACGCACACCTGTGCACTCGTGTGTGTTA
AGAAAGGAAAGGATTTGGGCTGGGGAGCAAAAGATAATGTGAAACTGTTGGTGGACTCTC
TGGTGAGGGGTGGGCAGAACTTGCTGCTACTAGAGTTCTTGGGTTCTCCATGATGTTTAC
CCTGGGGCTGGCCCACTGTGTCTGAATGTTTTTGTATTATTTTTTGTATTTTTTAAAC
AAACTGCTGTTTTTATATACCTGGAATCTGTTGTTGGCTTCAGAGCCAGTGGTTAAAGAG